SERVICE MANUAL

SANYO

PORTABLE MINI COMPONENT SYSTEM

C4

4-243T-23000
DC cord

DC
CA1200A
CAR ADAPTOR

SPECIFICATIONS

C4R TUNER/AMPLIFIER

FM section

Frequency range	87.6 – 108 MHz
Usable sensitivity	2.0μV/300Ω (mono)
Signal to noise ratio (1 mV ANT.)	80 dB (mono)
Harmonic distoration (1 kHz)	0.5% (mono)
Aerial input	300 ohms balanced

MW/SW1/SW2 section

Frequency range	MW: 531 – 1602 kHz
	SW1: 2.3 – 7.3 MHz
	SW2: 7.3 – 22 MHz
Sensitivity	300 μV/m (MW)
	250 μV/m (SW1)
	10 μV (SW2)
Signal to noise ratio (10 mV/m)	50 dB (MW)
Aerial	Ferrite bar aerial and external aerial terminal

Amplifier section

Output power	50 W (P.M.P.O.) 12W x 2 maximum music power
Inputs	PHONO: 3.5 mV/47 kohms
	AUX: 450 mV/47 kohms
	TAPE PLAY : 450 mV/47 kohms
Outputs	TAPE REC: 450 mV
	SPEAKER: 3 – 8 ohms
	PHONES: 8 ohms to 10 kohms
Graphic equalizer	±8 dB (100/300/1 k/3k/12 kHz)
Frequency response	±3 dB (70 Hz – 30 kHz)
Signal to noise ratio	76 dB (PHONO)

General

Power requirements	AC: 120/220/240V, 50/60Hz
Power consumption	14 W
Dimensions (Approx.)	230(W) x 200(D) x 110(H)mm (9-1/16" x 7-7/8" x 4-5/16")
Weight (Approx)	2.4 kg (5 lbs. 5 ozs.)

C4D CASSETTE DECK

Tape	Metal, normal tape
Recording system	AC bias, 4-track stereo
Erasing system	AC erasing, 2-track
Tape speed	4.75 cm/sec. (1-7/8 i.p.s)
Rewind and fast forward time	Approx. 110 sec. (C–60)
Wow and flutter	0.1% (WRMS)
Frequency response	40 – 1,7000 Hz (metal)
	40 – 14,000 Hz (normal)
Signal to noise ratio (metal tape)	65 dB Dolby NR on)
	55 dB (Dolby NR off)
Inputs	MIC: 1.5 mV/10 kohms
	LINE IN: 300 mV/60 kohms
Output	LINE OUT: 400 mV/2 kohms
Power requirements	DC SOCKET: 12 V (supplied from the tuner/amplifier)
	DC: 12 V car battery adaptor
	DC: 12 V "D" (UM–1) x 8
Dimensions (Approx.)	230(W) X 200(D) x 110(H)mm (9-1/16" x 7-7/8" x 4-5/16")
Weight (Approx.)	3.5 kg (7 lbs. 11 ozs.) including batteries

C4S SPEAKER SYSTEM

Type	2 way speaker system, bassreflex type: Tweeter 2 cm, Woofer 12 cm
Impedance	3 ohms
Input power	10 W (maximum)
Dimensions (Approx.)	170(W) x 200(D) x 222(H)mm (6-11/16" x 7-7/8" x 8-3/4")
Weight (Approx.)	1.3 kg. (2 lbs. 14 ozs.) x 2

Total dimensions of the system C4	570(W) x 200(D) x 222(H)mm (22-7/16" x 7-7/8" x 8-3/4")
Total weight of the system C4	8.7 kg. (17 lbs.) including batteries

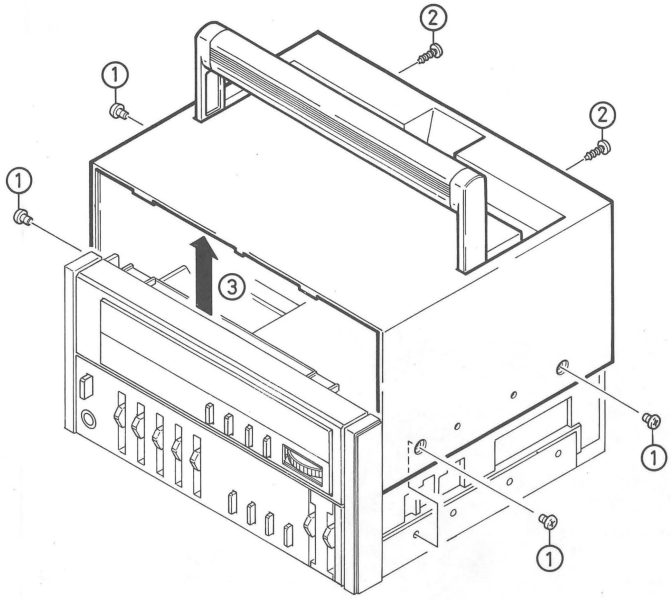
*Specifications subject to change without notice.

WM-9263

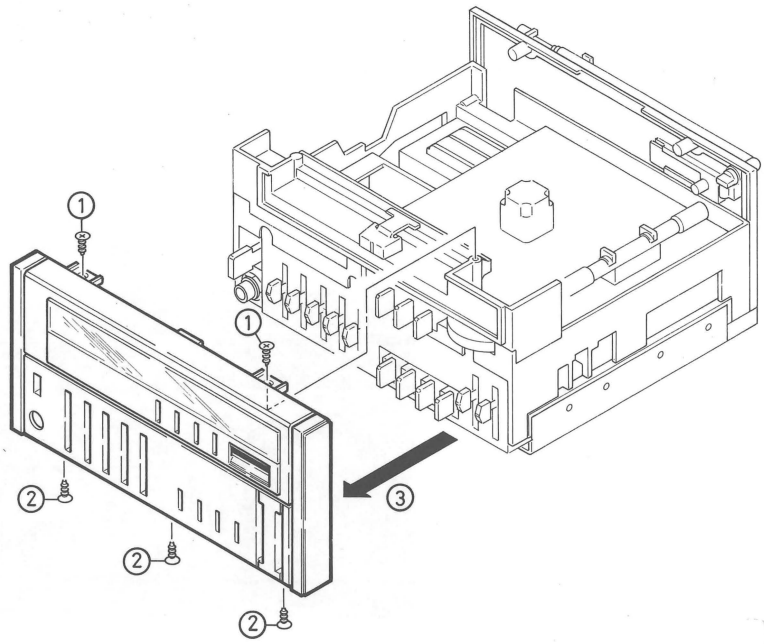
DISASSEMBLY (RECEIVER UNIT)

Perform disassembly of receiver unit after removing the power source (supply cord, lead cord) without fail.
A mojor component of receiver unit can be removed simply if removed in order of numbering given in each of following figures:

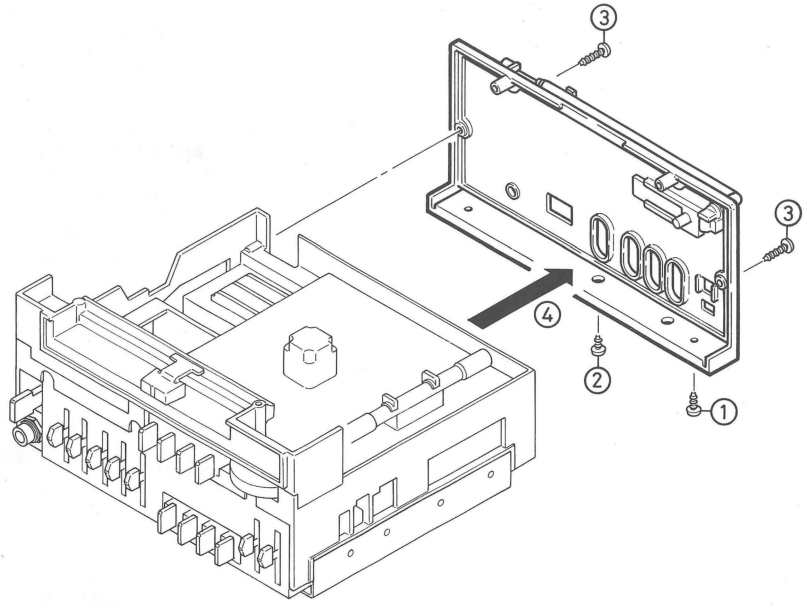
R–1
REMOVING CABINET



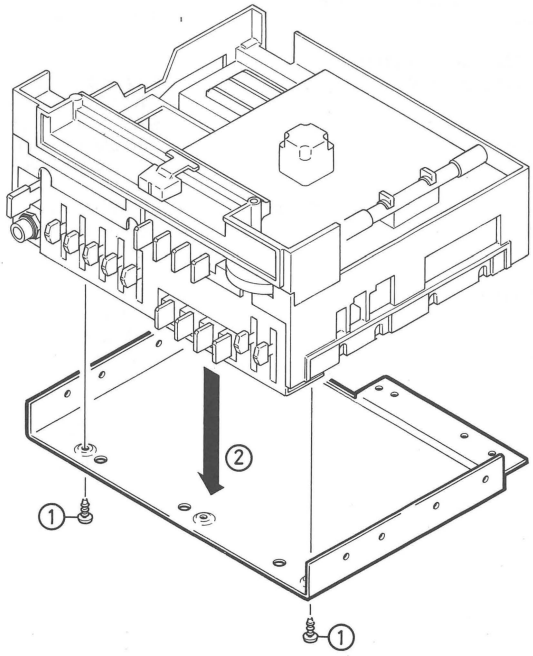
R–2
REMOVING FRONT-PANEL



R–3
REMOVING BACK-LID



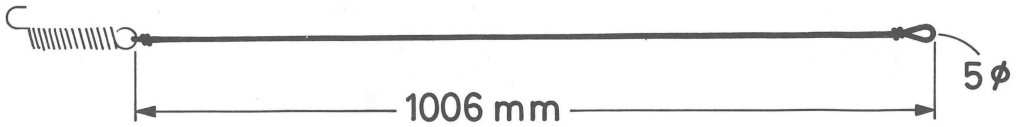
R–4
REMOVING BOTTOM-LID



STRINGING OF DIAL ROPE (RECEIVER UNIT)

(1) Preparation

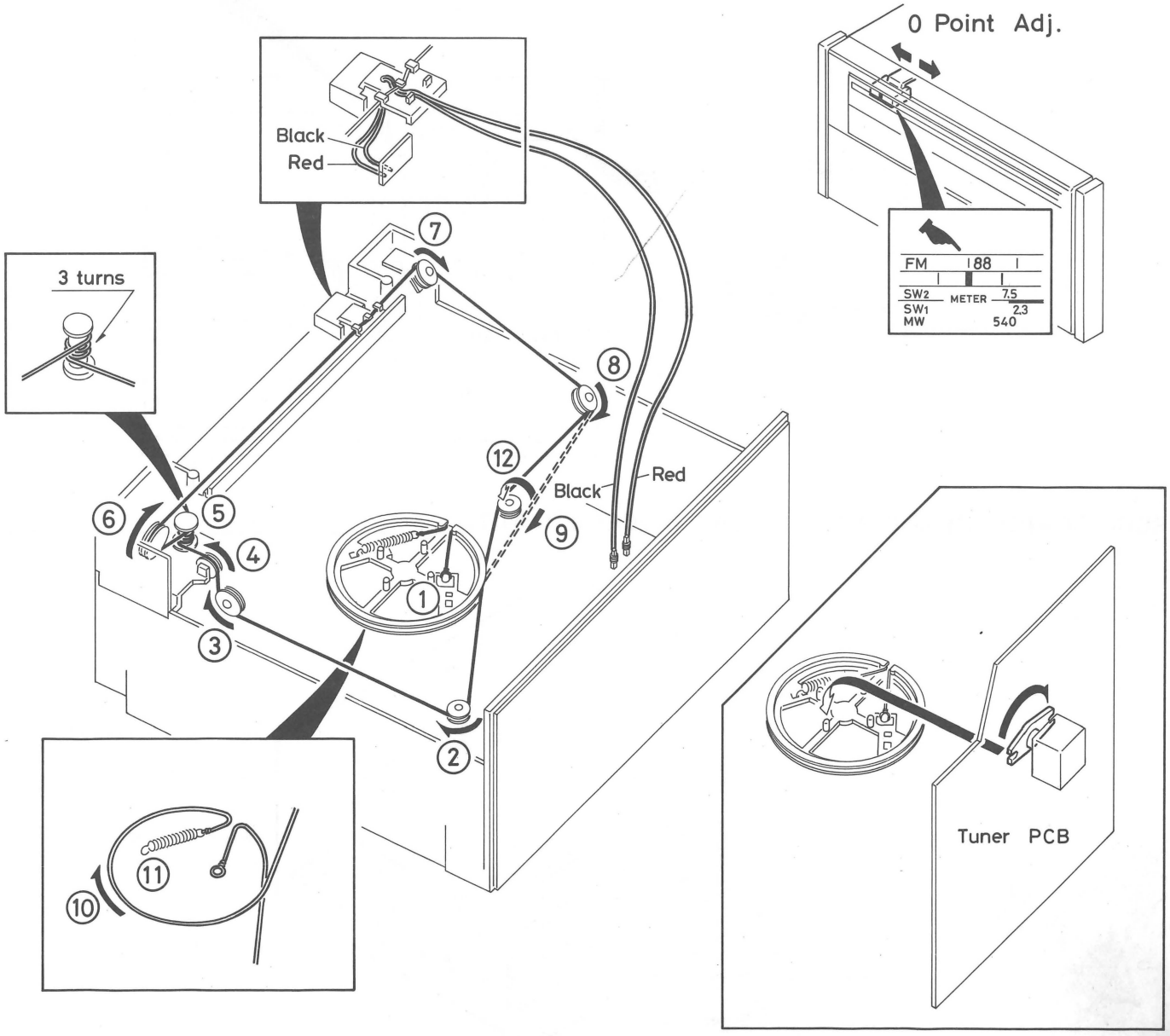
Prepare 0.5mmϕ x 1500mm rope. Knot an one end of this rope so that the inner diameter of thus formed loop becomes 5ϕmm. Bind another end of rope to the spring coil so that the overall length becomes 1006mm.



(2) As shown in illustration, hook the I.O.5ϕmm loop to the drum. String the free end of rope in the direction of ① , and advance stringing form ② to ④ and then to ⑤ . At ⑤ , coil the rope round ⑤ for three turns, and string through ⑥ , ⑦ , ⑧ and ⑨ . Then coil around the drum for one turns in order of ⑩ and ⑪ . Next, fasten the spring coil to the drum.
Finally, stretch thus strung rope to pass through ⑫ .

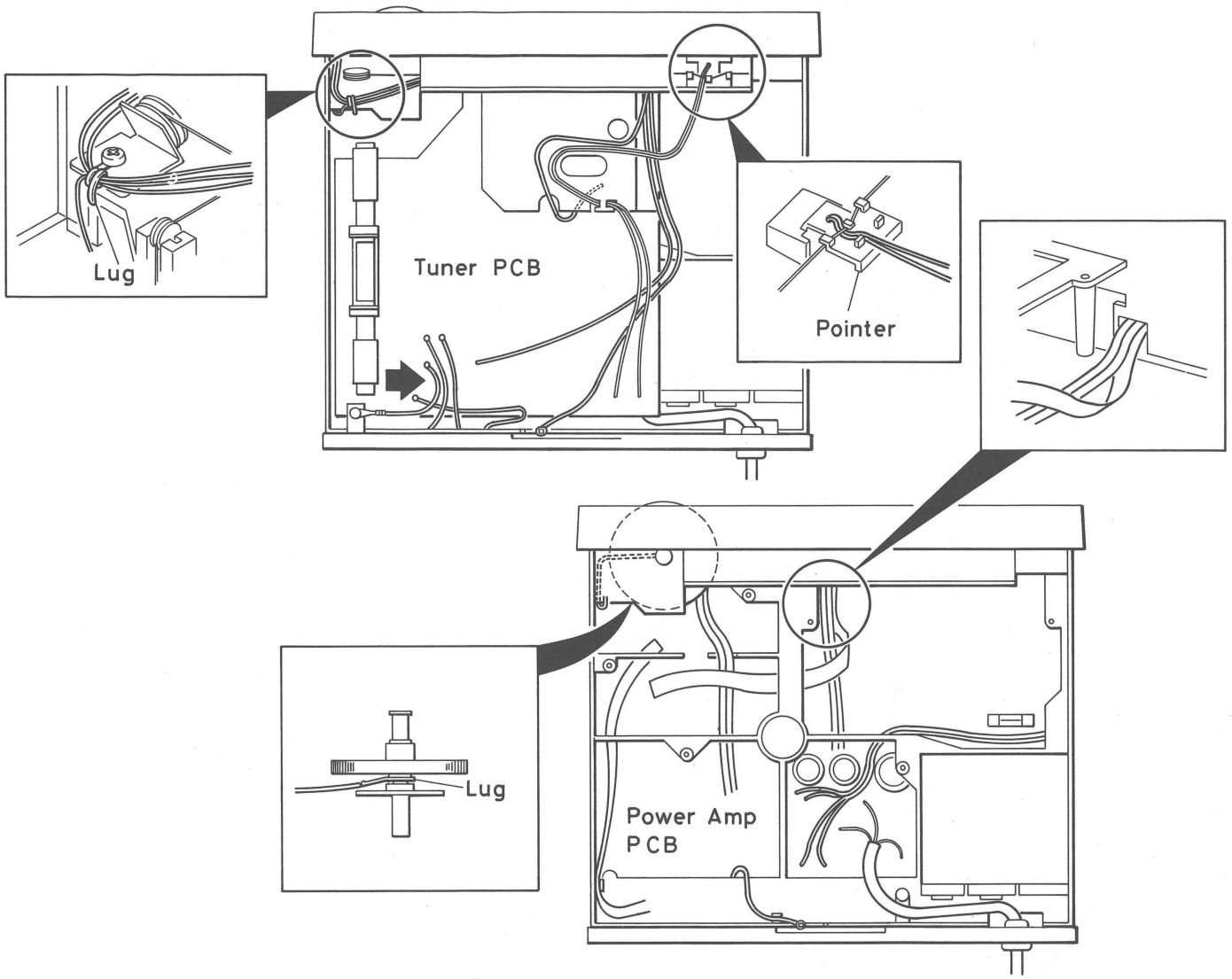
(3) Adjustment of pointer position

Agree the center of pointer LED with the vertical posisition of marked on the front panel.

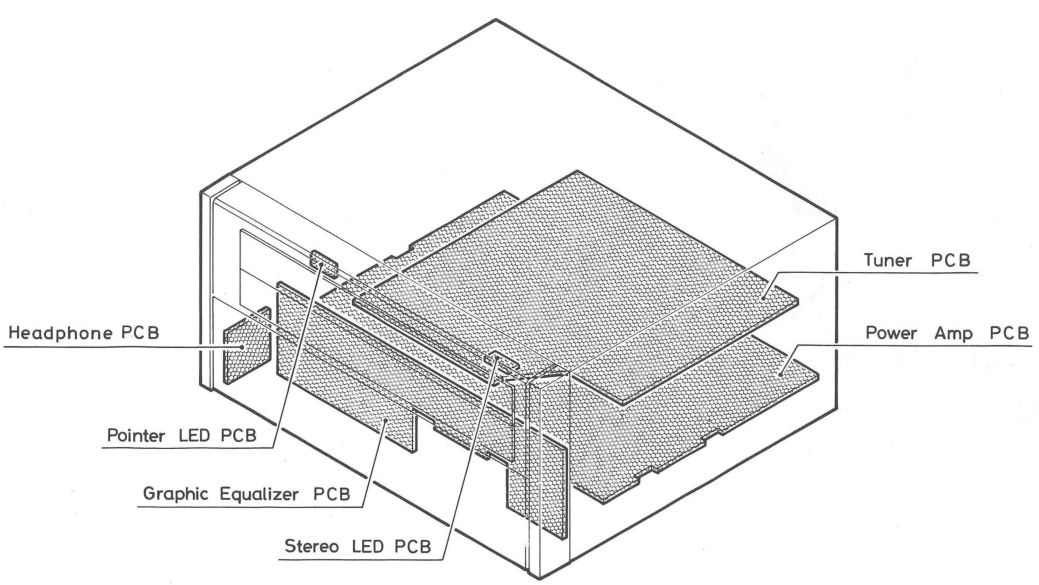


LEAD WIRES ARRANGEMENT (RECEIVER UNIT)

Note : Unless lead wires are shaped properly as illustrated, they may break in reassembly or a malfunction may take place even if reassembled.



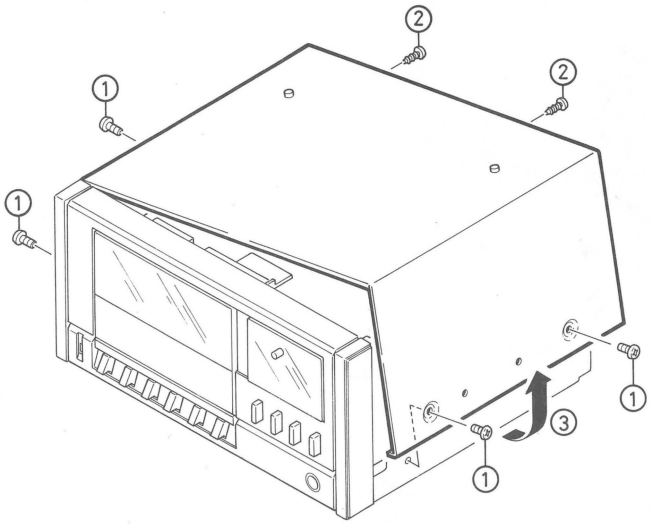
CIRCUIT BOARD ARRANGEMENT FIGURE (RECEIVER UNIT)



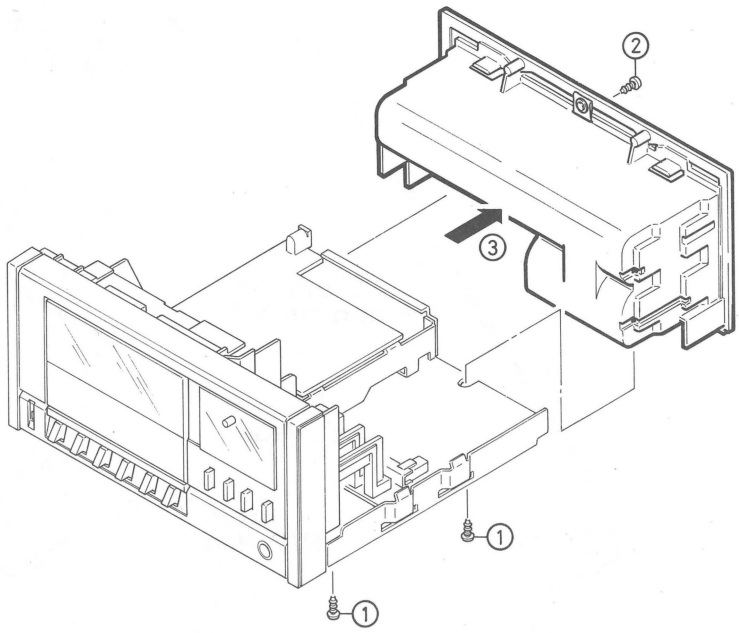
DISASSEMBLY (DECK UNIT)

Perform disassembly of tape-deck unit after removing the power source (battery) without fail.
A major component of tape-deck unit can be removed simplay if removed in order of numbering given in each of following figures:

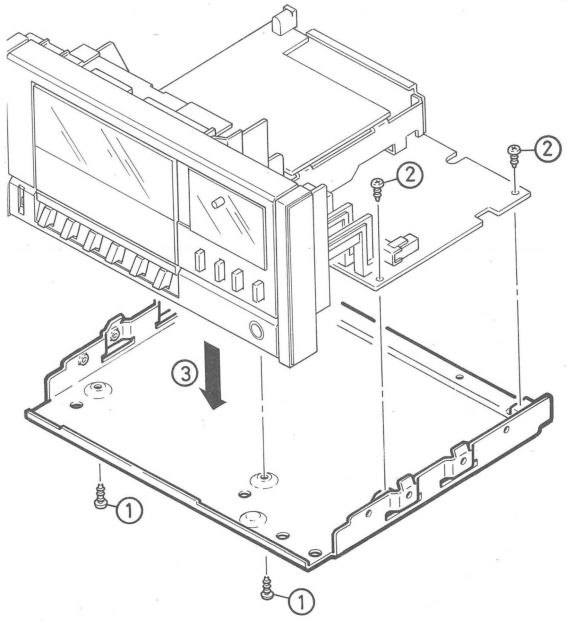
D–1
REMOVING CABINET



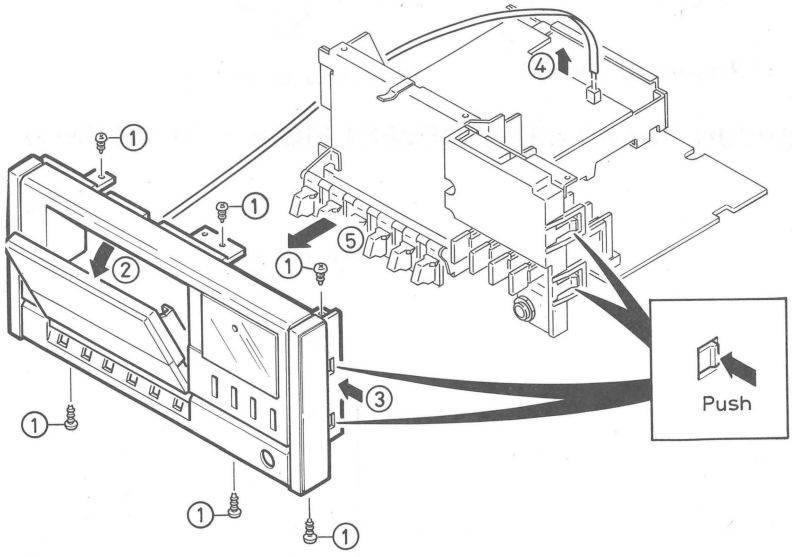
D–2
REMOVING BACK-LID



D–3
REMOVING BOTTOM-LID

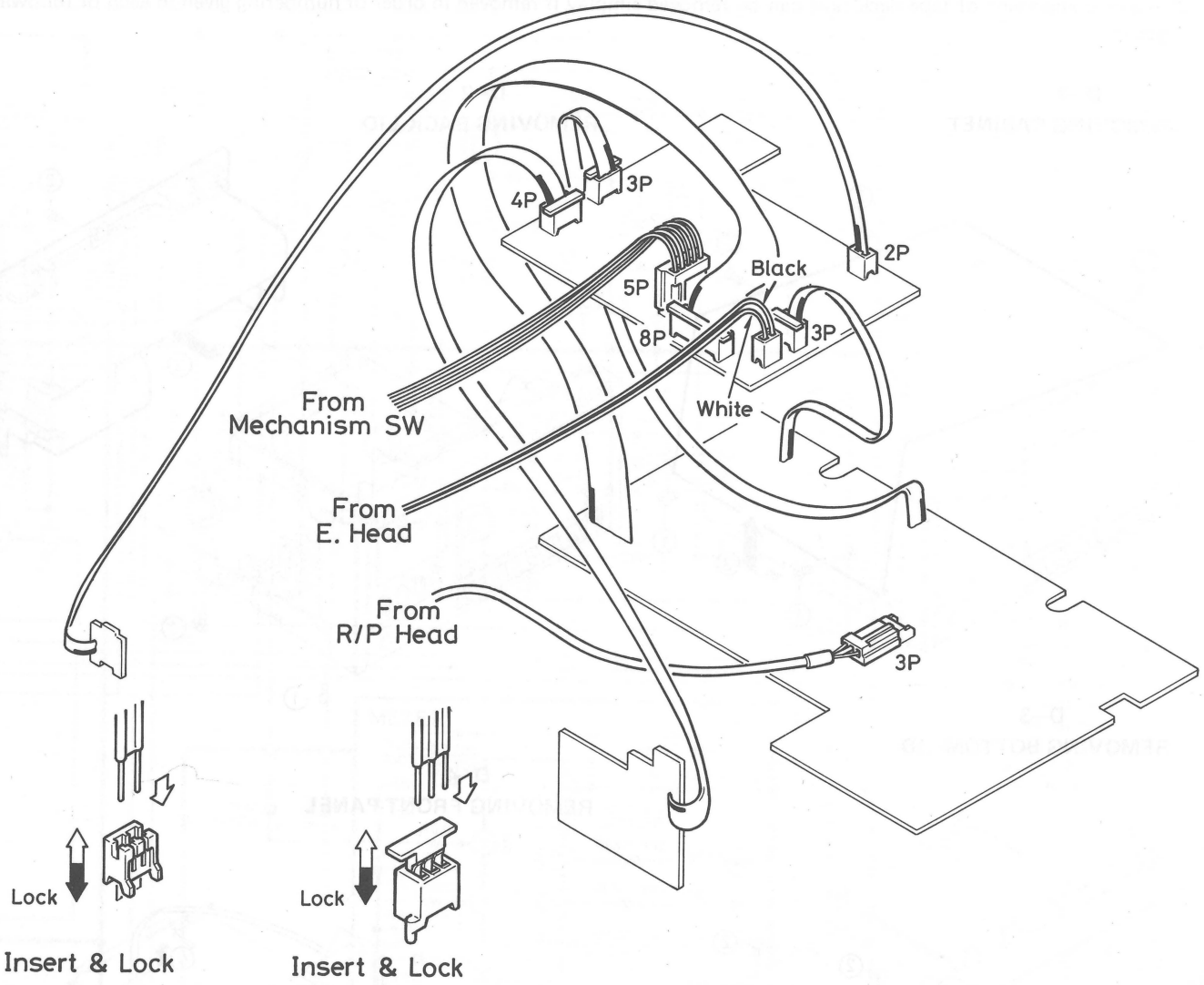


D–4
REMOVING FRONT-PANEL

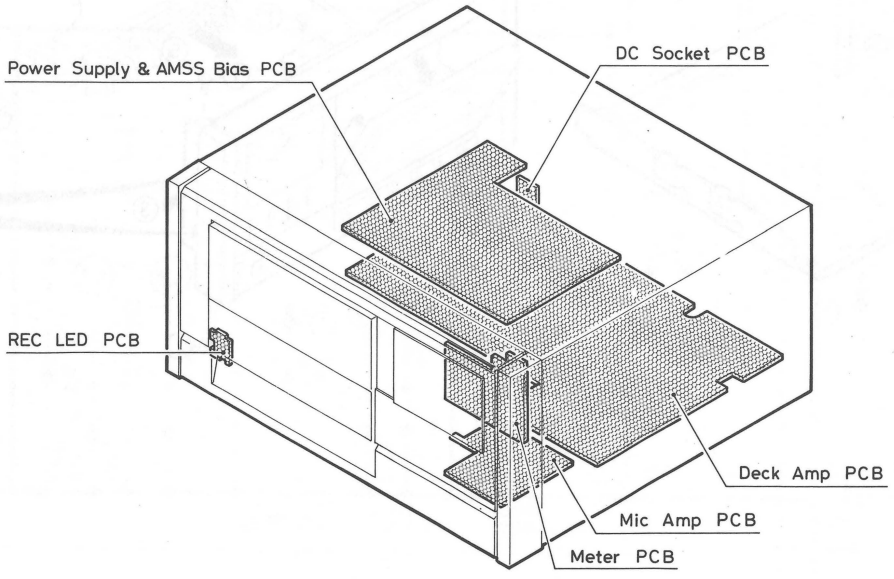


WIRE CONNECTION CHART (DECK UNIT)

Note : Disconnect lead wires with due attention given to method of removing each socket/plug.

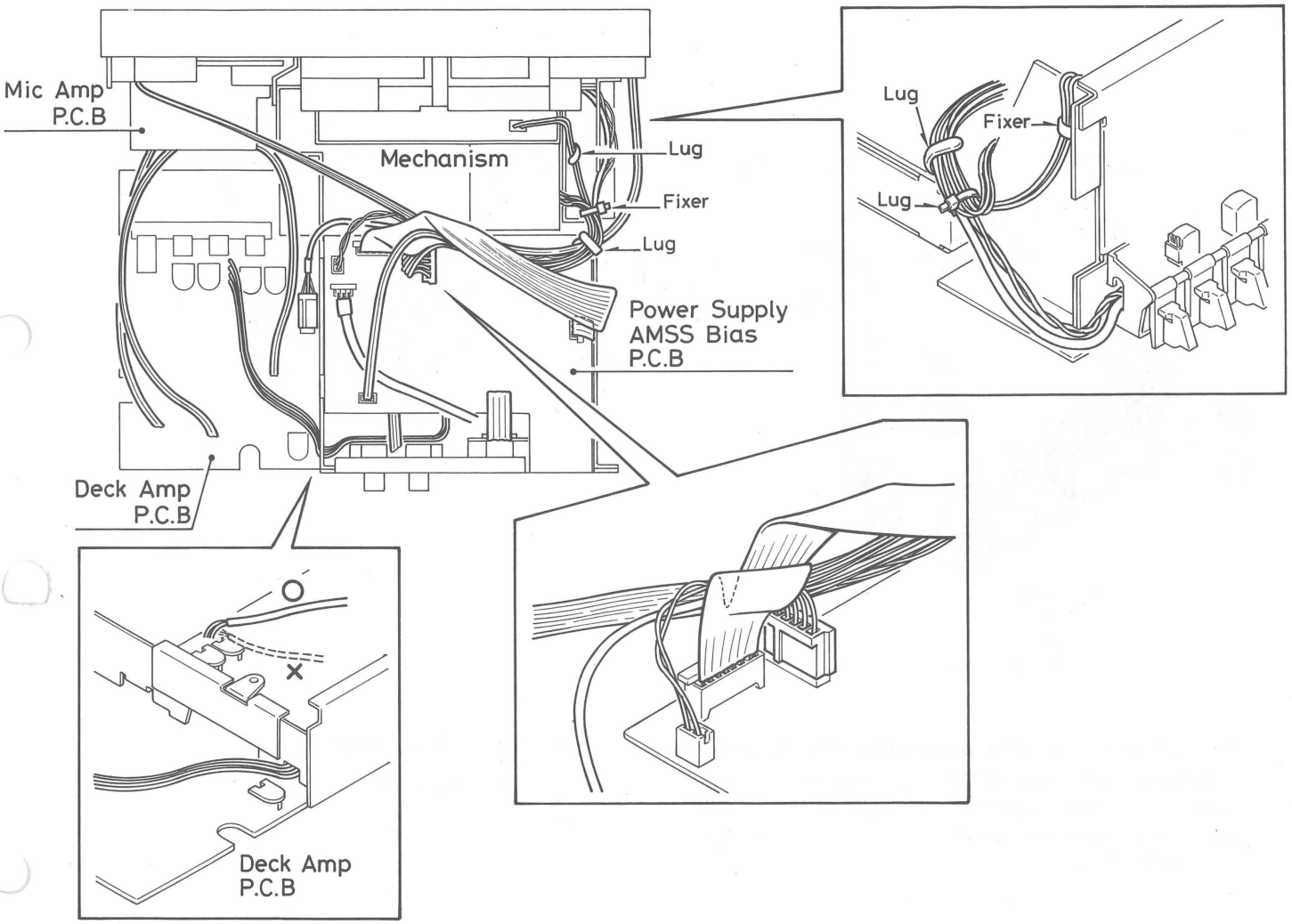


CIRCUIT BOARD ARRANGEMENT FIGURE (DECK UNIT)



LEAD WIRES ARRANGEMENT (DECK UNIT)

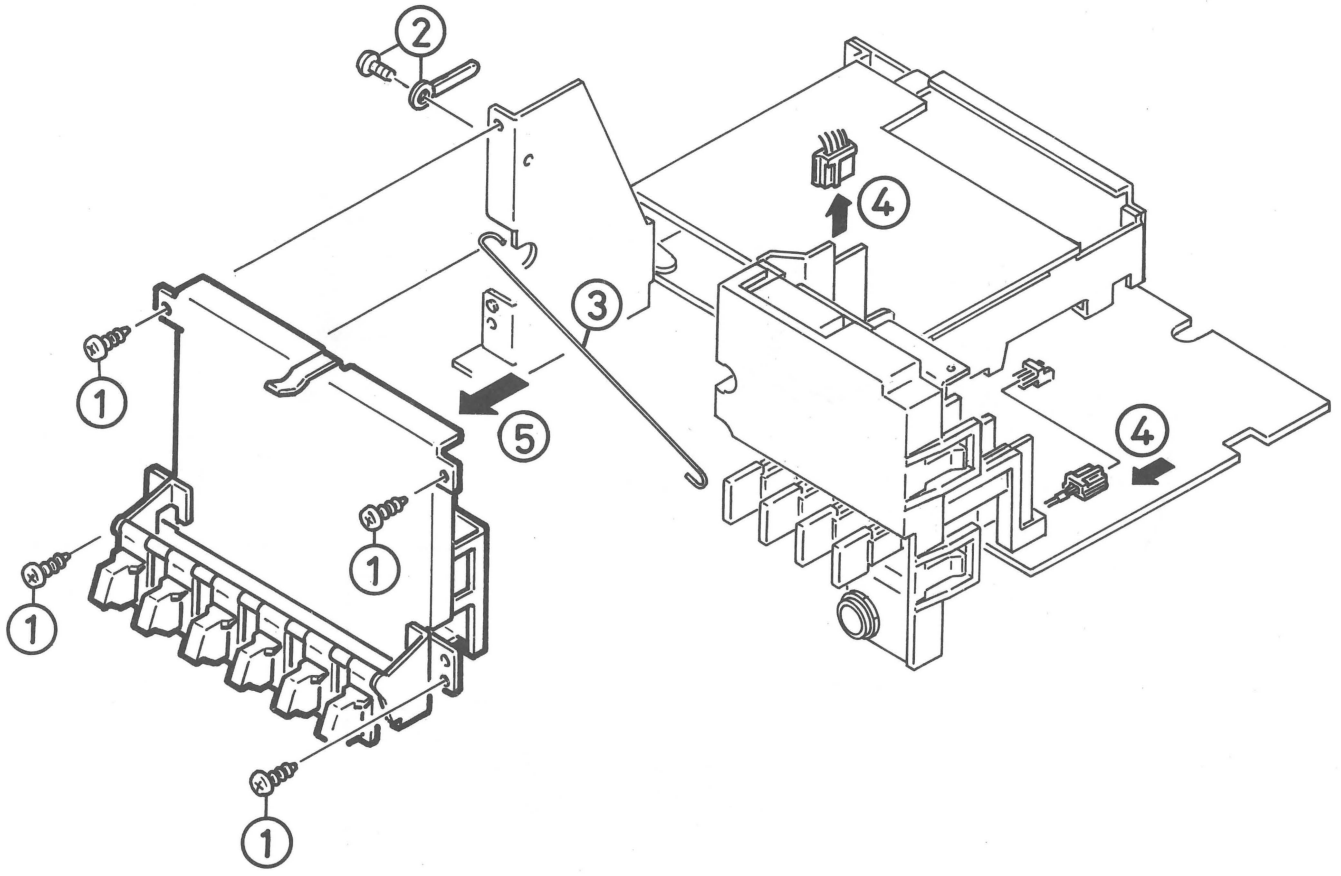
Note : Unless lead wires are shaped properly as illustrated, they may break in reassembly or a malfunction may take place even if reassembled.



MECHANISM ADJUSTMENT (DECK UNIT)

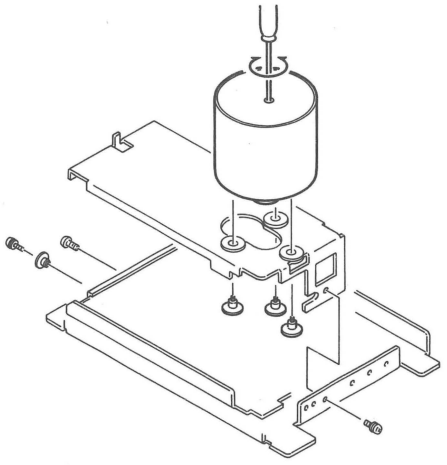
(1) REMOVING MECHANISM

Remove parts in order of disassembly as numbered.



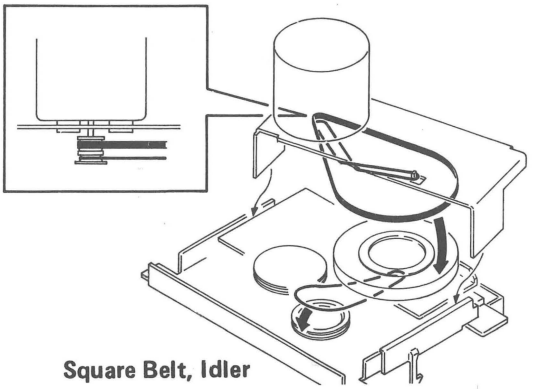
(2) MOTOR REPLACEMENT AND SPEED REGULATION

Play back the test tape (MTT-111, 3 kHz for instance), and turn the SVR located on the back of motor with blade screwdriver so that the frequency counter will indicate 3,000Hz.

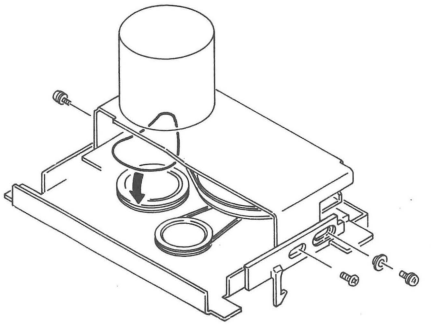


(3) BELT REPLACEMENT

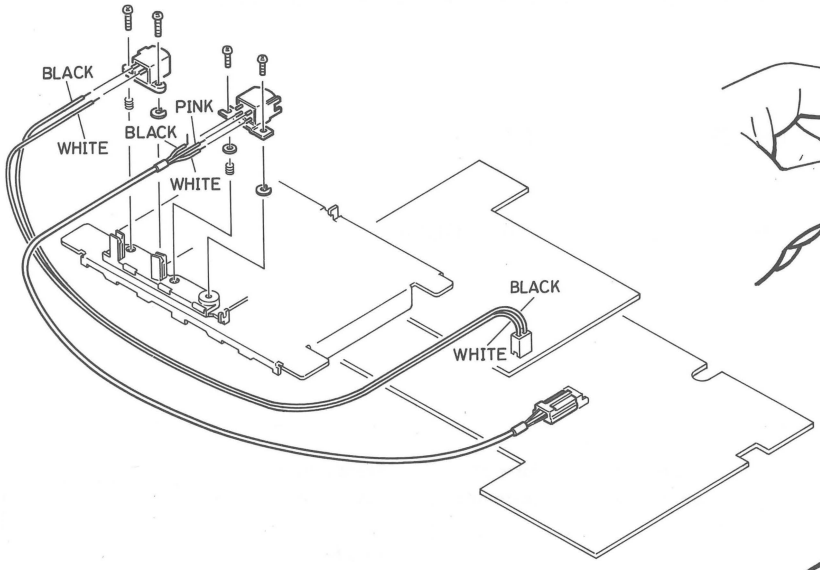
Flat, Square Belt

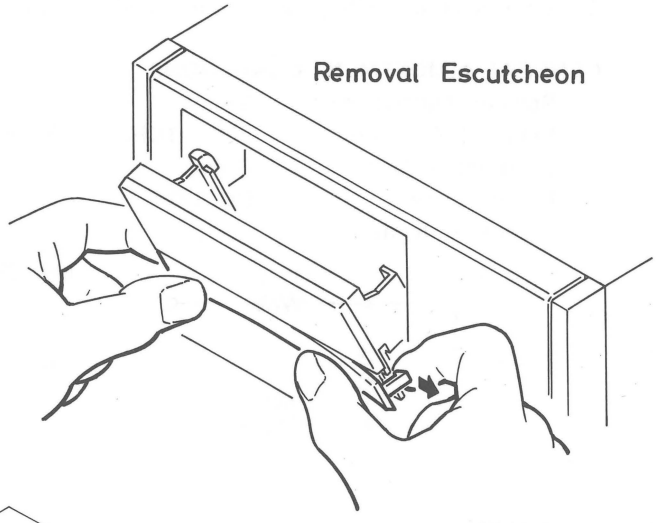


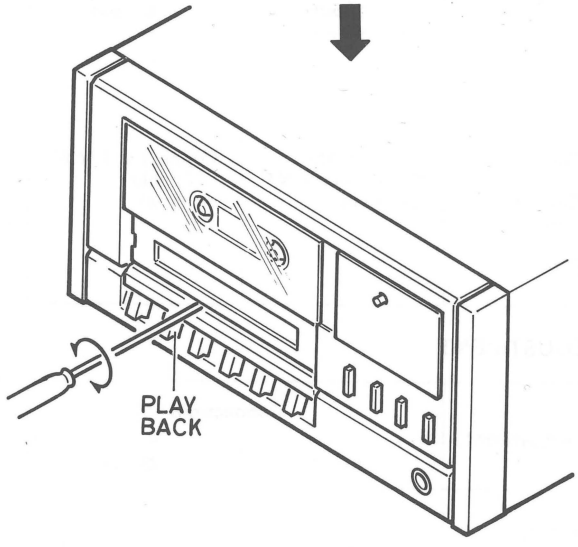
Square Belt, Idler



(4) HEAD REPLACEMENT AND AZIMUTH ADJUSTMENT







After replacing the head, demagnetize (clean) it with head cleanings and head silencer. Play back the test tape for azimuth adjustment (VTT-658, 10 kHz for instance) and turn the azimuth adjusting screw with Phillips screwdriver so that the left and right outputs of both SIDE 1 and SIDE 2 of cassette will be maximized.

(5) MECHANISM ADJUSTMENT

* Before measurement, clean the head, capstan and pinch roller.

* Check torque and tensions.

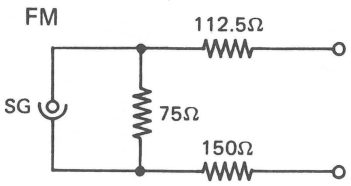
Measuring item	Take-up torque	Back tension	Tape tension
Measurement cassette	PLAY: TW-2111 F.FWD/REW: TW-2231	PLAY/F.FWD: TW-2111 REW: torque gauge	Drive power cassette TW-2412
PLAY	30 ~ 60 gr.cm	2 ~ 6 gr.cm	Greater than 90 gr.
F.FWD	80 ~ 140 gr.cm	2 ~ 6 gr.cm	–
REW	80 ~ 140 gr.cm	2 ~ 8 gr.cm	–

TUNER ADJUSTMENT (RECEIVER UNIT)

Notes: 1. For adjustment, change over setting of switches and controls to the following postion:
MODE ⟶ Stereo FUNCTION ⟶ TUNER GRAPHIC EQUALIZER ⟶ 0 (100Hz ~ 12KHz)
2. For coverage adjustment, adjust basically the graduation of dial scale.
3. Use screwdriver with plastic grip for all adjustment.

GENERAL ADJUSTMENT CONDITIONS

Standard Output Level : 50 mW
Standard Modulation : FM 1KHz 75 KHz Dev. MW. SW1. SW2. 400Hz 30% Mod.
Load Impreadance : 3 ohm
Power Source : DC 12V
Dummy Antenna



MW. SW1. SW2.
I.R.E. Loop I.R.E DUMMY

MW ADJUSTMENT

Step	Adjustment	Connections		Postions of Tuning Dial	Parts of Adjustment	Standards of Adjustment	Adjustment for
		Input	Output				
1	IF	Connect AM SG to Loop ANT. terminals	Connect V.T.V.M. to Speaker terminals	Higher than 600 KHz	T151, 251	455 KHz Center frequency of Ceramic Filter	Maximum reading on V.T.V.M.
2	Tuning Coverage			Low End	L164	510 KHz	
				High End	VCT–4	1650 KHz	
3	Tracking			600 KHz	L161	Max. Sensitivity	
				1400 KHz	VCT–3		

SW 1 ADJUSTMENT

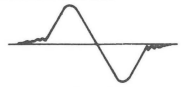
Step	Adjustment	Connections		Positions of Tuning Dial	Parts of Adjustment	Standards of Adjustment	Adjustment for
		Input	Output				
1	Tuning Coverage	Connect AM SG to Loop ANT. terminals	Connect V.T.V.M. to Speaker terminals	Low End	L174	2.1 MHz	Maximum reading on V.T.V.M.
				High End	CT172	7.6 MHz	
2	Tracking			2.5 MHz	L171	Max. Sensitivity	
				6.5 MHz	CT171		

SW 2 ADJUSTMENT

Step	Adjustment	Connections		Position of Tuning Dial	Parts of Adjustment	Standards of Adjustment	Adjustment for
		Input	Output				
1	Tuning Coverage	Connect AM SG to TP151 (H) and TP104 (E)	Connect V.T.V.M. to Speaker terminals	Low End	L184	7 MHz	Maximum reading on V.T.V.M.
				High End	CT182	22.7 MHz	
2	Tracking			8 MHz	L181	Max. Sensitivity	
				21 MHz	CT181		

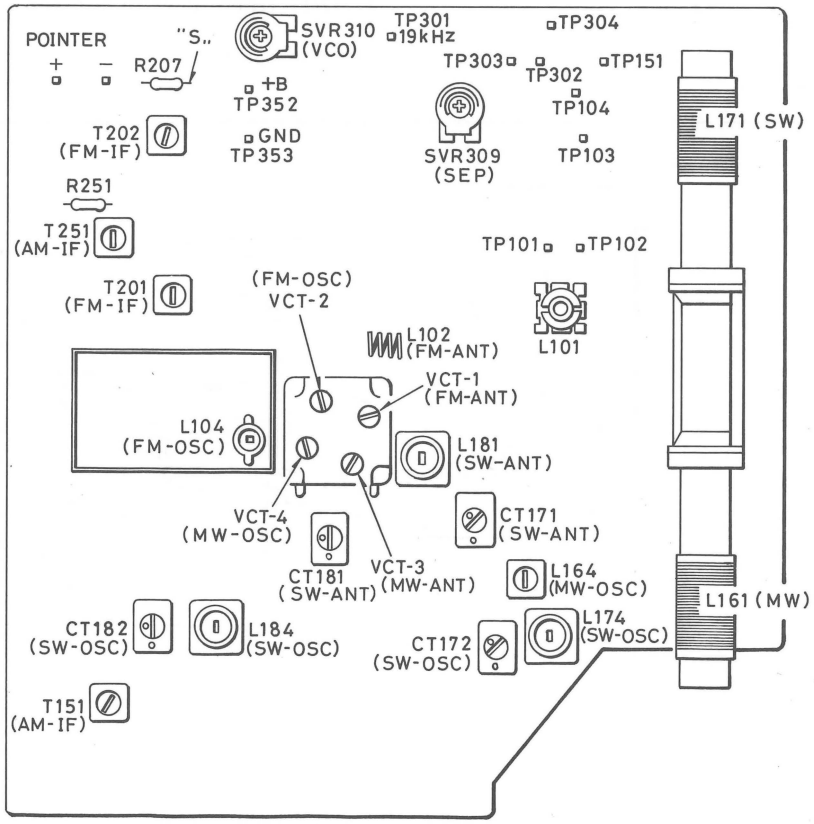
TUNER ADJUSTMENT (RECEIVER UNIT)

FM ADJUSTMENT

Step	Adjustment	Connections		Position of Tuning Dial	Parts of Adjustment	Standards of Adjustment	Adjustment for
		Input	Output				
1	S–Curve	Connect Output terminals of FM IF SWEEP to TP101,102 (2) and TP104 (E)	Connect Input terminals of FM IF SWEEP to R207	98 MHz	T201, 202	10.7 MHz Center frequency of Ceramic Filter	Wave form as shown below  10.7 MHz
2	Tuning Coverage	Connect FM SG to TP101,102 (H) and TP104 (E)	Connect V.T.V.M. to Speaker terminals	Low End	L104	87.4 MHz	Maximum reading on V.T.V.M.
				High End	VCT–2	108.3 MHz	
3	Tracking			90 MHz	L102	Max. Sensitivity	
				106 MHz	VCT–1		
4	V.C.O	Connect FM SG to ANT. terminals Input : 72 dBμ No modulation	Connect Frequency Counter to TP301 (H) and TP353 (E)	98 MHz	SVR310	19±0.1 KHz	Adjust SVR310 to obtain 19.00 KHz display on Frequency Counter
5	Separation	Connect Stereo modulated FM SG to ANT. terminals Input : 72 dBμ	Connect V.T.V.M. to Speaker terminals of Right (or Left) Channel	98 MHz	SVR309	Best Separation	Adjust SVR309 to obtain Best Separation

PARTS LOCATION

TUNER PCB



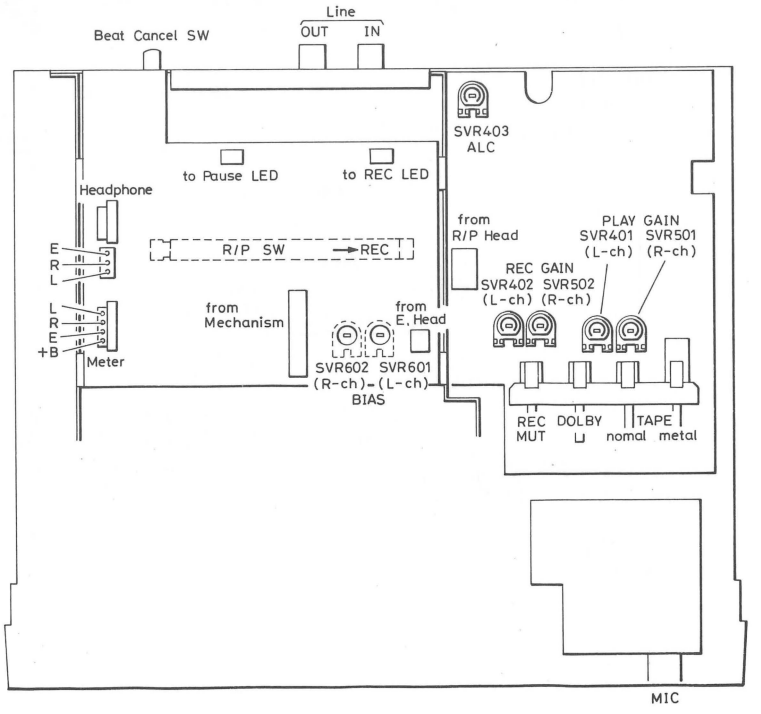
DECK/AMP ADJUSTMENT (DECK UNIT)

Notes:

1. For adjustment, change over settings of switches, and controls to the following posistions:
   REC. MUTE ⟶ OFF DOLBY NR ⟶ OFF
   METAL/NORMAL ⟶ NORMAL
2. Conditions of adjustment
   Power Supply voltage : DC 12V
   Input point in recording : LINE IN terminals.
   Reference of recording level : Set the attenuator so that 1V at the input point becomes 0 dB.

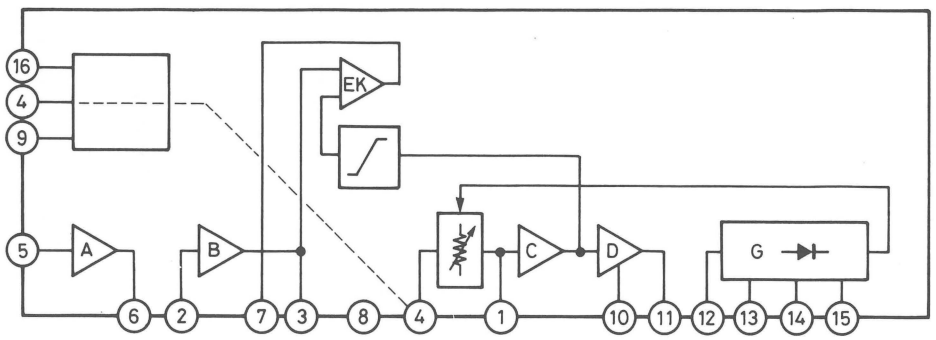
ITEM OF ADJUSTMENT	TAPE USED	ADJUSTING METHOD
Reproducing output (P.B. GAIN)	DOLBY NR tape (MTT–150, for instance)	Reproduce DOLBY NR tape, and adjust SVR 401 (SVR501) so that the reproducing output appearing over the LINE OUT L-ch (R-ch) becomes 560 mV.
Recording / playback frequency response (BIAS)	Noiseless recording tape (AC 223, for instance)	Record 1 kHz and 10 kHz at –30dB level, and then reproduce recording. Adjust SVR 601 (SVR 602) so that reproducing output existing over the LINE OUT L-ch (R-ch) becomes 0 dB for 1 kHz or 0 ± 3 dB for 10 kHz.
Recording / reproducing out put	Noiseless recording tape (AC 223, for instance)	Record 1 kHz at –10 dB level. Adjust SVR 402 (SVR 502) so that the reproducing output which appears at the LINE IN L-ch (R-ch) when reproducing thus recorded becomes 350 mV.
ALC	Noiseless recoding tape (AC212, for instance)	Record 1 kHz at +10 dB level. Adjust SVR 403 so that the reproducing output of LINE OUT (L-ch) and LINE OUT (R-ch) became 0 ± 1dB level between two channels.

PARTS LOCATION

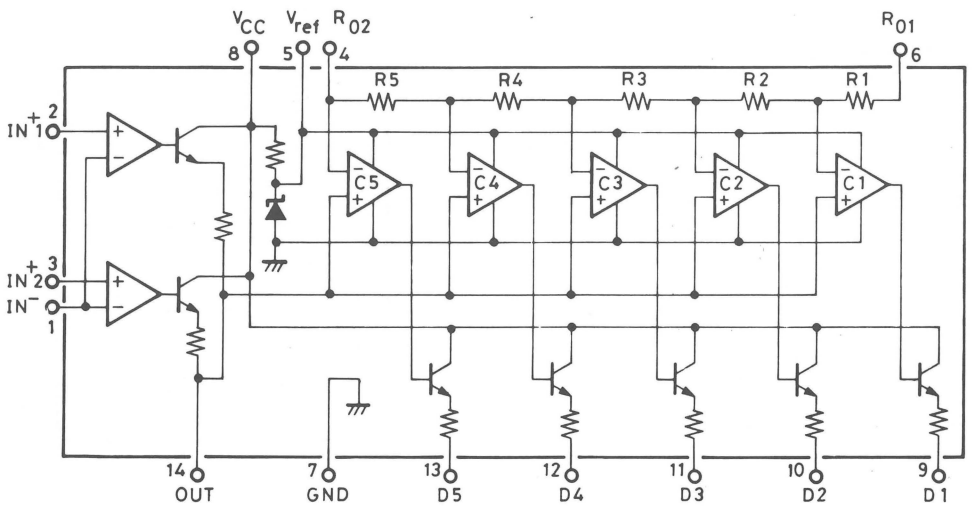


IC BLOCK DIAGRAM

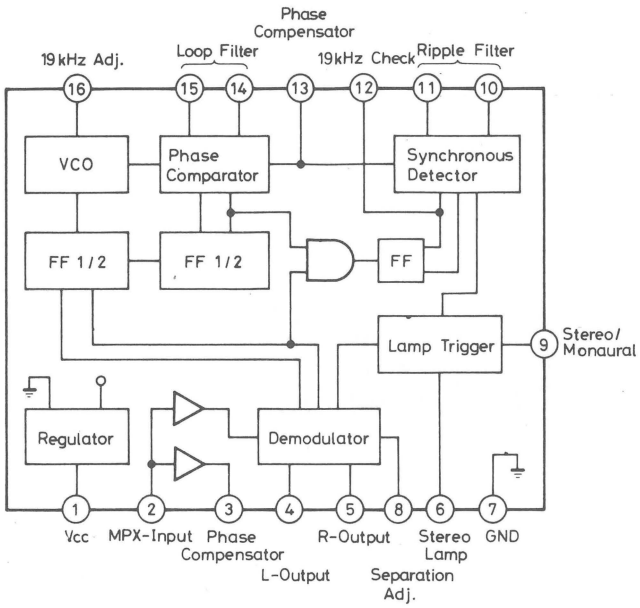
LM 1112 (Dolby B-type)



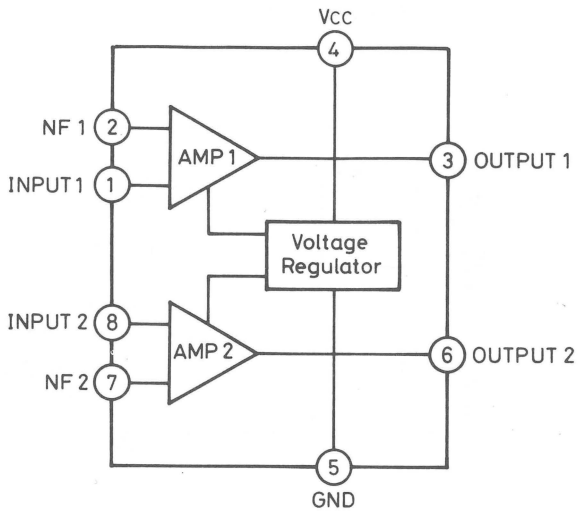
LB 1416 (5-Digital level Meter Driver)



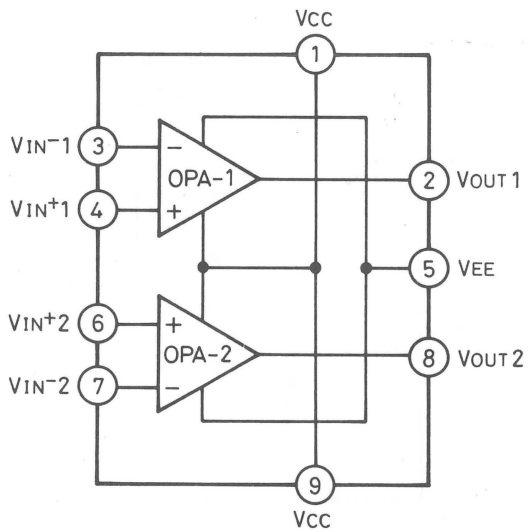
LA 3361 (PLL FM Multiplex Stereo Demodulator)



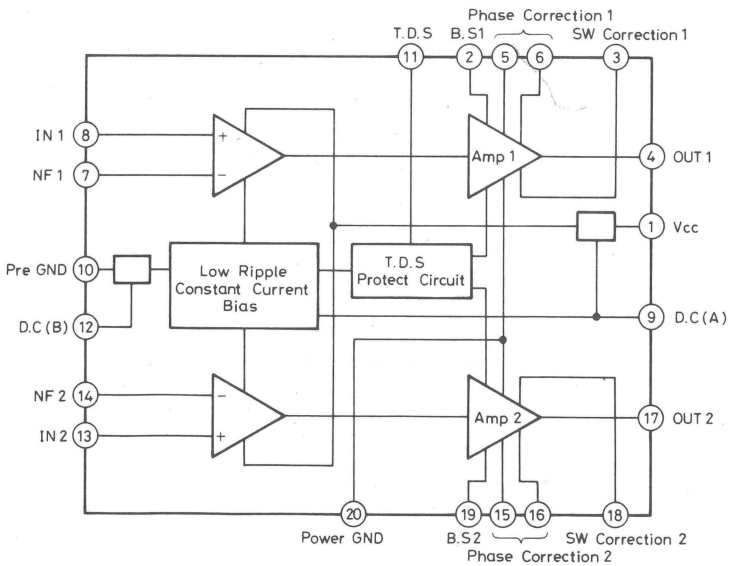
LA 3160 (Dual Pre Amplifier)



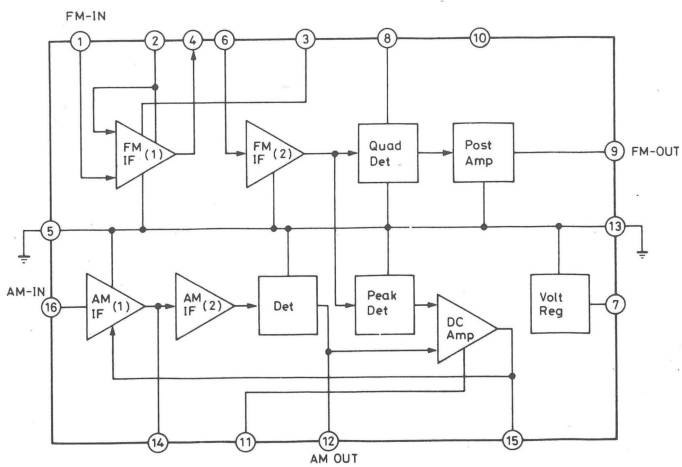
LA 6458S NJM 4558S (Dual Operation Amplifier)



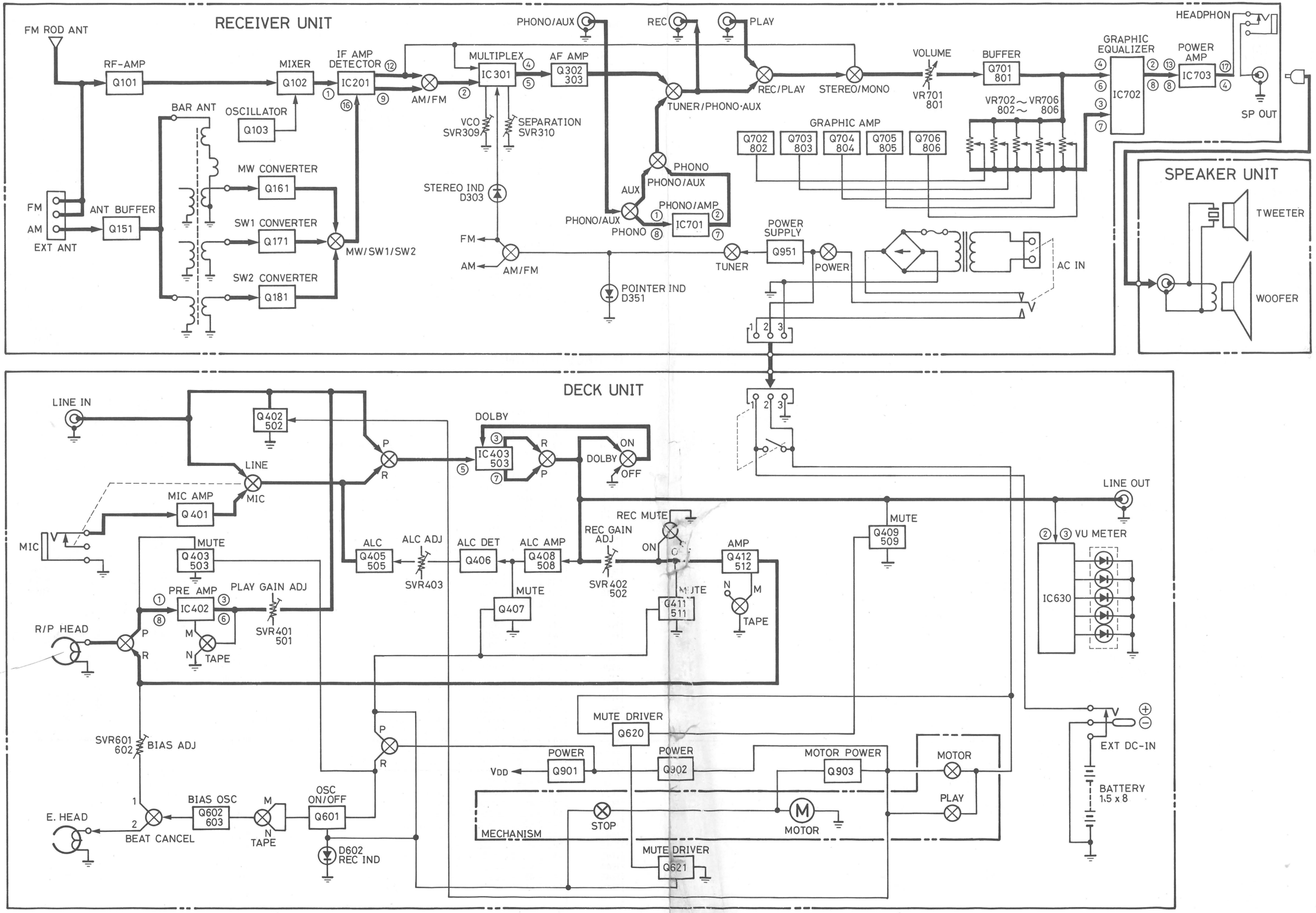
LA 4505 (Dual Power Amplifier)



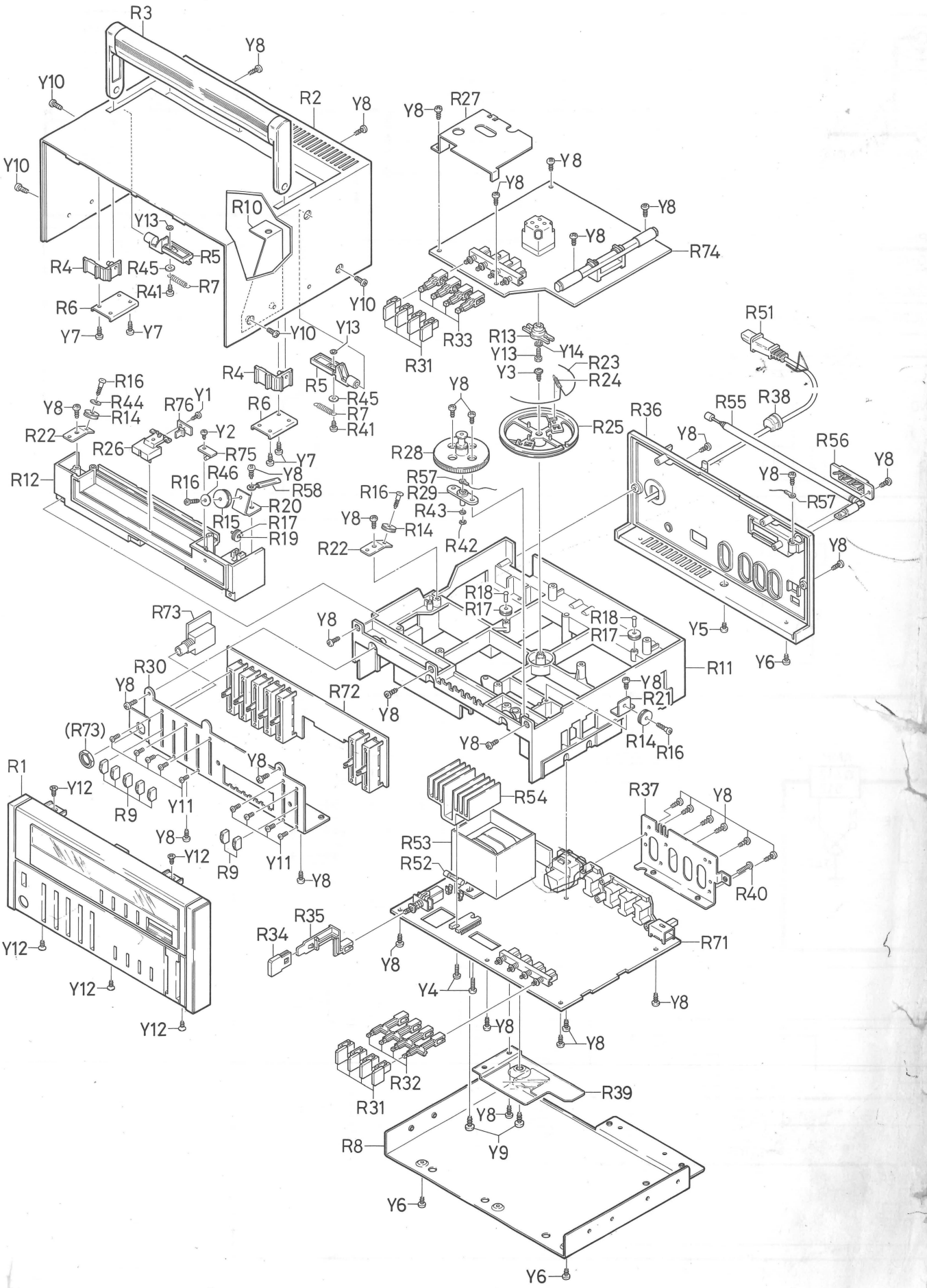
HA 12421 (IF System)



BLOCK DIAGRAM



EXPLODED VIEW (RECIVER UNIT)



Key. No.	Part No.	Description	Q'ty
PACKING			
	141-6-133T-37708	Individual Carton	1
	141-6-144T-82700	Foam Plastic Case	1
	141-6-144T-82800	Foam Plastic Case, Set	1
	141-6-231T-50600	Inner Polye Cover, Set	1
	141-6-231T-50450	Inner Polye Cover, Speaker	1
	141-6-231T-25350	Inner Polye Cover, Inst. B.	1
	141-6-317T-55100	Pad	1
	141-6-331T-14000	Protector Sheet, Set Speaker	3
	141-6-478T-20000	Sticker	1
	141-6-479T-51100	Label, Dolby	1
	141-6-479T-56100	Label	1
ACCESSORY			
	141-6-410T-79808	Instruction Manual	1
	4-243T-13080	⚠ Power Cord, AC	1
	4-236T-11201	⚠ Plug Ass'y	1
	4-243T-24700	Lead Cord, Gray	1
	4-243T-24771	Lead Cord, Black	1
H 1	141-2-210T-40940	Bracket	2
Y 1		Binding Hd. Self Tapping Screw 3 x 12mm	8
*** RECEIVER UNIT**			
CABINET & CHASSIS			
R 1	141-0-122T-45106	Front Panel Ass'y	1
R 2	141-2-111T-53240	Cabinet	1
R 3	141-0-171T-19502	Handle Ass'y	1
R 4	141-2-271T-20400	Bracket Handle, Speaker Lock	2
R 5	141-2-732T-04400	Slide, Speaker Lock	2
R 6	141-2-310T-75700	Bracket, Speaker Lock	2
R 7	141-2-856T-03100	Spring Coil, Speaker Lock	2
R 8	141-0-125T-28800	Bottom Lid Ass'y	1
R 9	141-2-164T-30701	Seled Knob, Slide VR	7
R10	141-2-322T-76200	Shield Plate, Cabinet	1
R11	141-2-311T-41700	Chassis	1
R12	141-2-231T-01840	Bracket Dial Scale	1
R13	141-2-363T-14100	Bracket Capacitor	1
R14	141-2-661T-71300	Pulley	3
R15	141-2-661T-71200	Pulley	1
R16	141-2-421T-20900	Special Screw	4
R17	141-2-661T-24600	Pulley	3
R18	141-2-567T-02000	Pulley Shaft	2
R19	141-2-567T-02100	Pulley Shaft	1
R20	141-2-310T-75800	Bracket	1
R21	141-2-310T-75900	Bracket	1
R22	141-2-310T-76000	Bracket	2
R23	141-2-340T-05003	Rope	1
R24	141-2-851T-06300	Spring Coil	1
R25	141-2-538T-14000	Drum	1
R26	141-2-511T-23700	Pointer	1
R27	141-2-135T-88401	Cover	1
R28	141-0-566T-12902	Tuning Shaft Ass'y	1
R29	141-2-573T-16000	Bearing	1
R30	141-2-361T-21000	Bracket Resistor	1
R31	141-2-160T-12401	Push Button , Function Band SW	8
R32	141-2-253T-32100	Joint, Function SW	4
R33	141-2-253T-32200	Joint, Band SW	4
R34	141-2-160T-12140	Push Button, Power SW	1
R35	141-2-253T-33400	Joint, Power SW	1
R36	141-2-119T-01510	Back Panel	1
R37	141-2-310T-76100	Bracket	1
R38	141-2-464T-12500	Fixer, DC	1
R39	141-2-135T-85700	Cover, AMP	1
R40	141-2-421T-28800	Special Screw	1
R41	141-2-421T-20900	Special Screw	2
R42	141-2-457T-23800	Special Washer 1.5mm	1
R43	141-2-453T-30201	Washer 2.6 x 4.7 x 0.25t	1
R44	141-2-453T-01200	Fiver Washer 3 x 8 x 1t	1
R45	141-2-453T-00800	Fiver Washer 3 x 8 x 0.5t	2
R46	141-2-457T-01000	Fiver Washer 3 x 12 x 1t	1

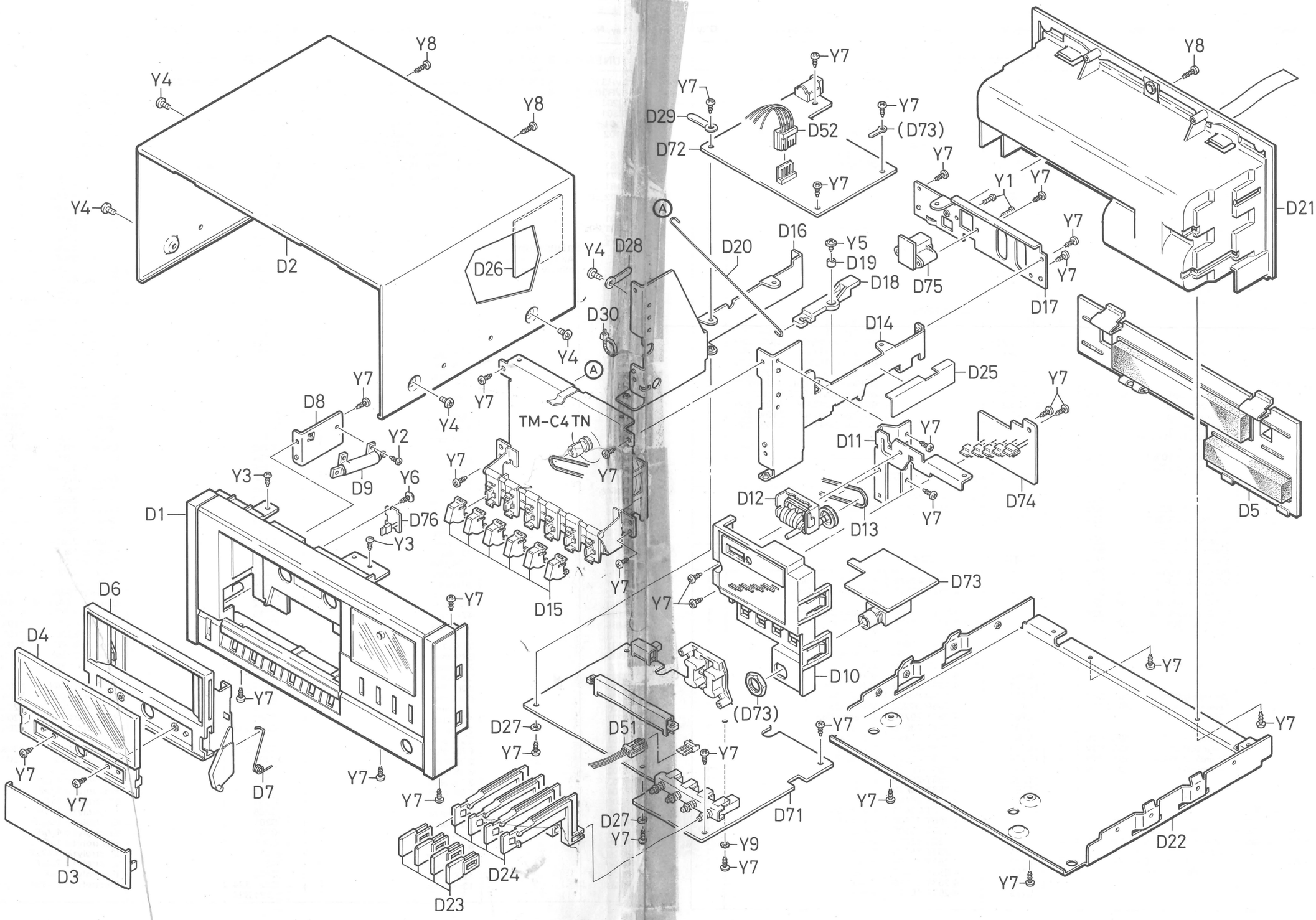
Key. No.	Part No.	Description	Q'ty
FIXING PARTS			
Y 1		Pan. Hd. Tapping Screw 2.3 x 6mm	1
Y 2		Pan. Hd. Tapping Screw 2.6 x 8mm	1
Y 3		Pan. Hd. Tapping Screw W/Washer 3 x 10mm	1
Y 4		Binding Hd. Screw 3 x 12mm	2
Y 5		Binding Hd. Tapping Screw 3 x 4mm	1
Y 6		Binding Hd. Tapping Screw 3 x 6mm	3
Y 7		Binding Hd. Tapping Screw 3 x 8mm	4
Y 8		Binding Hd. Tapping Screw 3 x 10mm	36
Y 9		Binding Hd. Tapping Screw 4 x 10mm	2
Y10		Binding Hd. Self Tapping Screw 3 x 6mm	4
Y11		Flat Hd. Screw 2 x 4mm	9
Y12		Flat Hd. Tapping Screw 3 x 10mm	5
Y13		Hexagon Hd. Bolt 2.6 x 6mm	1
Y14		Washer 2 x 6 x 0.4t	2
Y15		External Tooth Lock Washer 3 x 6.5 x 0.45t	1
ELECTRICAL PARTS			
R51	4-243T-22700	⚠ Lead Cord) or	1
	4-243T-22771	⚠ Lead Cord)	
R52	~~4-234T-08400~~	Fuse ~~2.5A~~ 2 4-234T-10284 1 0mA	1
R53	4-300T-51400	⚠ Power Transformer	1
R54	141-2-368T-25300	Heat Sink	1
R55	4-244T-04571	Rod Antenna	1
R56	141-2-382T-16500	Terminal 3p	1
R57	123-2-472R-00401	Lug	2
AMP P. C. B. ASS'Y			
R71	141-4-250T-48375	⚠ P.C.B. Ass'y, Amp	1
	4-240T-13400	⚠ Socket, AC	1
S1	4-238T-51600	⚠ Switch, Power	1
	4-240T-06800	Socket 2p, RCA Spekar Output	1
	4-240T-07000	Socket 6p, RCA Input	1
S3	4-231R-16600	Slide Switch, PAONO/AUX	1
S2,4	4-238T-51000	Push Switch, FUNCTION	1
	141-2-381T-04200	⚠ Bracket Fuse	2
S5	4-238T-20400	⚠ Switch, Voltage Select	1
Q951		Transistor 2SD734	1
Q701,801, 802,803, 804,805		Transistor 2SC536 AUD	6
Q806		Transistor 2SC536 AUD	1
IC701		IC LA3160T	1
IC702		IC NJM4558S	1
IC703		IC LA4504	1
D955		Zener Diode GZA9.1Z	1
D951,952, 953,954		Diode DS135	4
	RESISTORS All Resistors are Carbon T-type ±5%, 1/6W unless otherwise noted.		
R701,801, 708,808, 706,806		560 ohm	6
R707,807, 704,804, 702,802		100K ohm	6
R703,803		150 ohm	2
R705,805, 713,813		6.8K ohm	4
R709,809		4.7K ohm	2

Key. No.	Part No.	Description	Q'ty
AMP P. C. B. ASS'Y			
	RESISTORS All Resistors are Carbon T-type ±5% 1/6W, unless otherwise noted.		
R712,812, 739,839		100K ohm	4
R711,811		82K ohm	2
R815		220 ohm	1
R952		680 ohm	1
R817,821, 825,829, 833		68K ohm	5
R818,822, 826,830, 834		68K ohm	5
R819,823, 827,831, 835		1.5K ohm	5
R820,824, 828,832, 836		5.6K ohm	5
R710,810		1K ohm	2
R738,838, 714,814		3.9K ohm	4
R740,840		2.2K ohm	2
R741,841		560 ohm	2
R742,842		270 ohm	2
R954		100 ohm	1
	CAPACITORS		
C730,830		Ceramic 15pF ±10% 50V	2
C815		BC Con 0.01μF ±10% 25V	1
C703,803		Ceramic 330pF ±10% 50V	2
C956		Electrolytic 2200μF 16V	1
C727,827, 957		Electrolytic 1000μF 16V	3
C725,825		Electrolytic 100μF 16V	2
C704,804, 960,810, 959		Electrolytic 100μF 10V	5
C961		Electrolytic 470μF 16V	1
C958		Electrolytic 220μF 10V	1
C723,823		Electrolytic 3.3μF 50V	2
C708,808		Electrolytic 1μF 50V	2
C702,802		Electrolytic 4.7μF 25V	2
C707,807		Electrolytic 2.2μF 50V	2
C726,826		Electrolytic 33μF 10V	2
C705,805		BC Con 0.039μF ±10% 25V	2
C811		BC Con 0.1μF ±10% 25V	1
C813		BC Con 0.033μF ±10% 25V	1
C706,806		BC Con 0.012μF ±10% 25V	2
C817		BC Con 0.0033μF ±10% 25V	1
C819		Ceramic 820pF ±10% 50V	1
C701,801, 999,732, 832		Ceramic 100pF ±10% 50V	5
C722,822, 729,829, 831,731		Ceramic 47pF ±10% 50V	6
C724,824		Ceramic 0.0068μF ±10% 50V	2
C951,952, 953,954 955		Ceramic 0.022μF +80—20% 50V	5
C709,809		Ceramic 220pF ±10% 50V	2
C728,828		Mylar 0.15μF ±10% 50V	2
C964		Ceramic 0.001μF ±10% 50V	1
C962		Ceramic 0.01μF ±20% 50V	1
VOLUME P. C. B. ASS'Y			
R72	141-4-250T-48400	P.C.B. Ass'y, Volume	1
VR701,801	4-220T-01300	Variable Resistor 50K ohm (D) Volume	2
VR702,802 703,803, 704,804, 705,805, 706,806	4-220T-01400	Variable Resistor 50K ohm (W) Graphic Equlizer	5

Key. No.	Part No.	Description	Q'ty
VOLUME P. C. B. ASS'Y			
Q702,703, 704,705, 706		Transistor 2SC536 AUD	5
	RESISTORS All Resistors are Carbon T-type ±5% 1/6W, unless otherwise noted.		
R715		220 ohm	1
R717,721, 725,729, 733		68K ohm	5
R718,722, 726,730, 734		68K ohm	5
R719,723, 727,731, 735		1.5K ohm	5
R720,724, 728,732, 736		5.6K ohm	5
	CAPACITORS		
C710		Electrolytic 100μF 10V	1
C711		BC Con 0.1μF ±10% 25V	1
C718,818		BC Con 0.015μF ±10% 25V	2
C713		BC Con 0.033μF ±10% 25V	1
C715		BC Con 0.01μF ±10% 25V	1
C719		Ceramic 820pF ±10% 50V	1
C712,812		Al Electrolytic 0.47μF ±10% 25V	2
C714,814		Al Electrolytic 0.15μF ±10% 25V	2
C720,820		BC Con 0.0039μF ±10% 25V	2
C717		BC Con 0.0033μF ±10% 25V	1
C716,816		BC Con 0.047μF ±10% 25V	2
HEAD PHONE P. C. B. ASS'Y			
R73	141-4-250T-48500	P.C.B. Ass'y, Headphone	1
	4-240T-19575	Socket	1
R744,844		Carbon 82 ohm	2
TUNER P. C. B. ASS'Y			
R74	141-4-250T-47874	P.C.B. Ass'y, Tuner	1
L161,171, 155	4-257T-48801	Antenna Coil Ass'y	1
	4-224T-16800	Variable Capacitor	1
	141-2-322T-57371	Shield Plate	1
	4-238T-50900	Push Switch	1
	4-224R-11600	Trimmer	2
	4-224R-11600	Trimmer	1
	141-2-472T-11000	Lug	1
L102	4-265R-11300	V.H.F. Coil	1
L104	4-265T-51340	V.H.F. Coil	1
L100	4-265R-00400	V.H.F. Coil	1
L183	4-265R-00200	V.H.F. Coil	1
L101	4-257T-29740	Antenna Coil	1
L181	4-257T-28640	Antenna Coil	1
L184	4-258T-36440	OSC Coil	1
L164	4-258T-35840	OSC Coil	1
L174	4-258T-35940	OSC Coil	1
T201	4-256T-25940	I F T	1
T202	4-256T-25940	I F T	1
T151	4-256T-26040	I F T	1
T251	4-256T-26140	I F T	1
	4-256T-80474	I. F. Filter	2
	4-256T-81100	I. F. Filter	1
L153	4-253T-15020	Filter	1
L151	4-253T-15014	Filter	1
L154	4-253T-15025	Filter	1
L182	4-253T-15008	Filter	1
L103	4-253T-15012	Filter	1
L152	4-253T-15016	Filter	1
L173	4-253T-15012	Filter	1

Key. No.	Part No.	Description	Q'ty
TUNER P. C. B. ASS'Y			
SVR310	4-222T-71175	Semi-Variable Resistor 10K ohm	1
SVR309	4-222T-71172	Semi-Variable Resistor 1K ohm	1
IC201		IC HA12421A	1
IC301		IC LA3361	1
Q101		Transistor 2SC2999	1
Q102		Transistor 2SC2999	1
Q103		Transistor 2SC930 CONV	1
Q151		Transistor 2SC2839	1
Q161		Transistor 2SC930 CONV	1
Q171		Transistor 2SC930 CONV	1
Q181		Transistor 2SC930 CONV	1
Q302,303		Transistor 2SC536 AUD	2
D191		Diode DS442	1
D251		Diode DS442	1
D301,302		Diode DS442	2
D102		Varactor Diode 1S553T	1
	RESISTORS		
	All resistors are Carbon T-type ¼W, ±5% unless otherwise noted.		
R101		2.2K ohm	1
R102		15K ohm	1
R103		56 ohm	1
R104		15K ohm	1
R105		1.2K ohm	1
R107		330 ohm	1
R108		220 ohm	1
R111		15K ohm	1
R112		1.2K ohm	1
R113		330 ohm	1
R115		100K ohm	1
R116		100K ohm	1
R151		3.3K ohm	1
R152		390K ohm	1
R153		150 ohm	1
R154		3.3K ohm	1
R155		1K ohm	1
R156		680 ohm	1
R162		15K ohm	1
R163		100 ohm	1
R164		33 ohm	1
R165		3.3K ohm	1
R166		100 ohm	1
R171		33 ohm	1
R172		15K ohm	1
R173		330 ohm	1
R174		33 ohm	1
R175		1.8K ohm	1
R176		100 ohm	1
R181		56 ohm	1
R182		15K ohm	1
R183		680 ohm	1
R184		47 ohm	1
R185		1.5K ohm	1
R186		330 ohm	1
R191		15K ohm	1
R192		680 ohm	1
R202		330 ohm	1
R203		56 ohm	1
R204		10K ohm	1
R205		6.8K ohm	1
R206		1M ohm	1
R207		15K ohm	1
R208		220 ohm	1
R251		2.2K ohm	1
R252		6.8K ohm	1
R301		220 ohm	1
R302		3.3K ohm	1
R303		3.3K ohm	1
R304		6.8K ohm	1
R305		1K ohm	1
R306		2.2K ohm	1
R307		2.2K ohm	1
R321		8.2K ohm	1
R322		8.2K ohm	1
R323		560K ohm	1
R324		220 ohm	1
R325		1.5K ohm	1
R326		100K ohm	1

Key. No.	Part No.	Description	Q'ty
TUNER P. C. B. ASS'Y			
	RESISTORS		
R331		8.2K ohm	1
R332		8.2K ohm	1
R333		560K ohm	1
R334		220 ohm	1
R335		1.5K ohm	1
R336		100K ohm	1
R351		1.5K ohm	1
	CAPACITORS		
C165		P P Con 350pF ±5% 100V	1
C307		P P Con 0.001μF ±5% 100V	1
C185		Mylar 0.0047μF ±10% 50V	1
C175		Mylar 0.0012μF ±10% 50V	1
C101		Ceramic 22pF ±10% 50V	1
C102		Ceramic 20pF ±10% 50V	1
C103		Ceramic 100pF ±10% 50V	1
C104		Ceramic 0.01μF +80–20% 50V	1
C105		Ceramic 22pF ±10% 50V	1
C106,107		Ceramic 0.01μF +80–20% 50V	2
C108		Ceramic 4pF ±10% 50V	1
C111		Ceramic 100pF ±10% 50V	1
C112,113, 115		Ceramic 0.01μF +80–20% 50V	3
C121		Ceramic 4pF ±0.25pF 50V	1
C122		Ceramic 0.04μF +80–20% 50V	1
C123		Ceramic 2pF ±0.25pF 50V	1
C124		Ceramic 22pF ±5% 50V	1
C125		Ceramic 15pF ±5% 50V	1
C126		Ceramic 33pF ±5% 50V	1
C127		Ceramic 15pF ±5% 50V	1
C128		Ceramic 0.04μF +80–20% 50V	1
C131		Ceramic 0.01μF +80–20% 50V	1
C150		Ceramic 10pF ±10% 50V	1
C151		Ceramic 22pF ±10% 50V	1
C152		Ceramic 470pF ±10% 50V	1
C153		Ceramic 0.01μF +80–20% 50V	1
C154		Ceramic 0.01μF +80–20% 50V	1
C155		Ceramic 0.01μF +80–20% 50V	1
C156		Ceramic 10pF ±10% 50V	1
C161		Ceramic 8pF ±10% 50V	1
C167		Ceramic 20pF ±5% 50V	1
C162		Ceramic 100pF ±10% 50V	1
C177		Ceramic 6pF ±0.5pF 50V	1
C181		Ceramic 8pF ±10% 50V	1
C182		Ceramic 22pF ±10% 50V	1
C187		Ceramic 18pF ±5% 50V	1
C191		Ceramic 0.04μF +80–20% 50V	1
C201,202 203,204		Ceramic 0.022μF +80–20% 50V	4
C208		Ceramic 100pF ±10% 50V	1
C212		Ceramic 0.04μF +80–20% 50V	1
C215		Ceramic 0.022μF +80–20% 50V	1
C322		Ceramic 0.0015μF ±10% 50V	1
C323		Ceramic 820pF ±10% 50V	1
C332		Ceramic 0.0015μF ±10% 50V	1
C333		Ceramic 820pF ±10% 50V	1
C163,164 173		BC-Con 0.01μF ±20% 25V	3
C174,183		BC-Con 0.0047μF ±20% 25V	2
C184		BC-Con 0.0033μF ±20% 25V	1
C205		BC-Con 0.022μF ±20% 25V	1
C207		BC-Con 0.01μF ±20% 25V	1
C252,253, 254		BC-Con 0.022μF ±20% 25V	3
C302,303		BC-Con 0.015μF ±20% 25V	2
C305		BC-Con 0.022μF ±20% 25V	1
C206		Electrolytic 100μF 10V	1
C211		Electrolytic 4.7μF 25V	1
C216		Electrolytic 47μF 10V	1
C251		Electrolytic 1μF 50V	1
C255		Electrolytic 10μF 16V	1
C301		Electrolytic 100μF 10V	1
C304		Electrolytic 4.7μF 25V	1
C308		Electrolytic 1μF 50V	1
C311		Electrolytic 0.47μF 50V	1
C312		Electrolytic 2.2μF 50V	1
C313		Electrolytic 1μF 50V	1
C321,324, 331,334		Electrolytic 0.47μF 50V	4


Y8
Y4
Y8
Y4
D2
D26
Y7
Y7
D29
D72
D52
Y7
(D73)
Y7
Y8
D21
Y7
Y1
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PARTS LIST

Key. No.	Part No.	Description	Q'ty
STEREO LED P. C. B. ASS'Y			
R75	141-4-250T-47900	P.C.B. Ass'y, Stereo LED	1
D303		LED SLP144B07 Red	1
POINTER LED P. C. B. ASS'Y			
R76	141-4-250T-18900	P.C.B. Ass'y, Pointer LED	1
D351		LED SLP141B Red	1
*** DECK UNIT**			
CABINET & CHASSIS			
D 1	141-0-122T-47700	Front Panel Ass'y	1
D 2	141-2-111T-52940	Cabinet	1
D 3	141-2-153T-87300	Escutcheon, Top Lid	1
D 4	141-2-124T-38600	Top Lid	1
D 5	141-0-128T-18540	Battery Lid Ass'y	1
D 6	141-2-224T-14400	Bracket Lid	1
D 7	141-2-856T-15700	Spring Coil	1
D 8	141-2-310T-84400	Bracket	1
D 9	141-2-877T-00100	Damper,	1
D10	141-2-214T-07300	Bracket Frame	1
D11	141-2-812T-12200	Bracket Counter	1
D12	141-2-811T-12200	Counter	1
D13	141-2-564T-29400	Square Belt	1
D14	141-2-315T-27400	Reinforcement, Right	1
D15	141-2-160T-24000	Push Button, Mechanism	6
D16	141-2-315T-27300	Reinforcement, Left	1
D17	141-2-315T-25200	Reinforcement, Back	1
D18	141-2-742T-90000	Lever, R/P	1
D19	141-2-462T-69200	Boss , R/P	1
D20	141-2-856T-15800	Spring Coil, R/P	1
D21	141-0-126T-39440	Back Lid Ass'y	1
D22	141-0-125T-28501	Bottom Lid Ass'y	1
D23	141-2-160T-12340	Push Button, Select SW	4
D24	141-2-253T-32000	Joint, Select SW	4
D25	141-2-135T-86400	Cover	1
D26	141-2-135T-86500	Cover	1
D27	141-2-453T-01400	Washer 3 x 6 x 0.5t	2
D28	123-2-472R-00601	Lug	1
D29	141-2-472T-01201	Lug	1
D30	141-2-464T-20600	Fixer	1
FIXING PARTS			
Y 1		Pan. Hd. Screw 2.6 x8mm	2
Y 2		Pan. Hd. Tapping Screw 2.6 x 6mm	1
Y 3		Pan. Hd. Tapping Screw 2.6 x 8mm	2
Y 4		Pan. Hd. Forming Screw 3 x 6mm	5
Y 5		Pan. Hd. Tapping Screw W/Washer 3 x 6mm	1
Y 6		Pan. Hd. Tapping Screw W/Washer 3 x 8mm	1
Y 7		Binding Hd. Tapping Screw 3 x 8mm	35
Y 8		Binding Hd. Tapping Screw 3 x 10mm	3
Y 9		External Tooth Lock Washer 3 x 6.5 x 0.45t	1
ELECTRICAL PARTS			
D51	4-240T-28000	Socket, 3pin Mechanism	1
D52	4-240T-28100	Socket, 6pin Mechanism	1

Key. No.	Part No.	Description	Q'ty
DECK—AMP P. C. B. ASS'Y			
D71	141-4-250T-46974	P.C.B. ASS'Y, Deck—Amp	1
S2 ~ S5	4-238T-50800	Switch, REC. MUT. DOLBY. TAPE	1
S1	4-238T-52300	Switch, R/P	1
S9	4-231T-65200	Switch, BEAT CANCEL	1
	4-236T-19500	Plug, R/P HEAD	1
	4-240T-06900	Socket, 4p RCA. LINE IN. OUT	1
L401,501	4-255T-04671	M. X Coil	2
L403,503	4-255T-02371	M. X Coil	2
L402,502	4-252T-14178	Choke Coil	2
SVR401,501	4-222T-97575	Semi-Variable Resistor 10K ohm	2
SVR402,502	4-222T-97576	Semi-Variable Resistor 20K ohm	2
SVR403	4-222T-71174	Semi-Variable Resistor 5K ohm	1
SVR601,602	4-222T-71178	Semi-Variable Resistor 100K ohm	2
IC402		IC LA3160T	1
IC403,503		IC LM1112CN	2
Q409,509		Transistor 2SC945	2
Q412,512		Transistor 2SC536 AUD	2
Q402,502		Transistor 2SC945	2
Q405,505		Transistor 2SC536 ALC	2
Q406,407		Transistor 2SC2021	2
Q408,508		Transistor 2SC2021	2
Q403,503		Transistor 2SC2021	2
Q411,511		Transistor 2SC2021	2
D401,501, 402,502		Diode GMA01 or 1SS133	4
D625		Diode GMA01 or 1SS133	1
	RESISTORS		
	All Resistors are Carbon T-type ±5% 1/6W, unless otherwise noted.		
R401,501		47K ohm	2
R407,507		27K ohm	2
R409,509		22K ohm	2
R410,510		4.7K ohm	2
R411,511		22K ohm	2
R413,513		100K ohm	2
R414,514		39 ohm	2
R415,515		4.7K ohm	2
R416,516		6.8K ohm	2
R421,521		3.3K ohm	2
R422,522		47K ohm	2
R723,523		100K ohm	2
R424,524		10K ohm	2
R425,525, 426,526		1K ohm	4
R427,527		330 K ohm	2
R428,528		270K ohm	2
R550		820 ohm	1
R451,551		2.2K ohm	2
R450		820 oh, P-type	1
R463,563		68K ohm	2
R464,564		12K ohm	2
R465,565		10K ohm	2
R466,566		1.2K ohm	2
R467,567		5.6K ohm	2
R468,568		2.7K ohm	2
R469,569		33K ohm	2
R470,570		2.2K ohm	2
R921		120 ohm	1
R922		220 ohm	1
R923		47 ohm	1
R440,540		18K ohm	2
R441,541		3.3K ohm	2
R442,542		220K ohm	2
R443,543		1K ohm	2
R444,544		120 ohm	2
R446		4.7K ohm	1
R448,548		560 ohm	2
R412,512		4.7K ohm	2
R462,562		4.7K ohm	2
	CAPACITORS		
C420,520		Electrolytic 0.47μF 50V	2
C422,522		Electrolytic 4.7μF 25V	2
C423,523		Electrolytic 4.7μF 25V	2
C428,528		Electrolytic 10μF 10V	2
C429,529		Electrolytic 0.1μF 50V	2
C430,530		Electrolytic 0.33μF 50V	2

PARTS LIST

Key. No.	Part No.	Description	Q'ty
DECK–AMP P. C. B. ASS'Y			
	CAPACITORS		
C431,531		Electrolytic 47μF 10V	2
C411,511		Electrolytic 100μF 10V	2
C414,514		Electrolytic 2.2μF 50V	2
C440,540		Electrolytic 0.1μF 50V	2
C441,541		Al Electrolytic 0.22μF 10V	2
C442		Electrolytic 2.2μF 50V	1
C461		Electrolytic 4.7μF 25V	1
C462,562		Electrolytic 2.2μF 50V	2
C463,563		Electrolytic 10μF 16V	2
C561		Electrolytic 4.7μF 25V	1
C409,509		Electrolytic 4.7μF 25V	2
C921		Electrolytic 100μF 10V	1
C922		Electrolytic 47μF 10V	1
C923		Electrolytic 22μF 10V	1
C421,521		Ceramic 220pF ±10% 50V	2
C424,524		Ceramic 0.001μF ±10% 50V	2
C408,508		Ceramic 560pF ±10% 50V	2
C410,510		Ceramic 0.001μF ±10% 50V	2
C443,543		Ceramic 100pF ±10% 50V	2
C467,567		Ceramic 470pF ±10% 50V	2
C610,611		Ceramic 220pF ±10% 50V	2
C608		Ceramic 270pF ±10% 50V	1
C609		Ceramic 330pF ±10% 50V	1
C425,525		BC Con 0.0047μF ±5% 25V	2
C426,526		BC Con 0.033μF ±5% 25V	2
C427,527		BC Con 0.047μF ±5% 25V	2
C413,513		BC Con 0.027μF ±5% 25V	2
C464,564		BC Con 0.047μF ±5% 25V	2
C465,565		BC Con 0.027μF ±5% 25V	2
C432,532		BC Con 0.0039μF ±5% 25V	2
POWER SUPPLY P. C. B. ASS'Y			
D72	141-4-250T-47007	P.C.B. Ass'y, Power Supply & Bias	1
	~~4-240T-27800~~	~~Socket, EXT–DC~~	1
	4-240T-37900	Socket, 3p	2
	4-240T-37971	Socket, 4p	1
	4-240T-37975	Socket, 8p	1
	4-240T-24400	Socket, 2p	1
	4-236T-19773	Plug, 5p	1
L102	4-258T-42100	O. S. C Coil	1
L901	4-252T-13200	Choke Coil	1
L601	4-252T-13300	Choke Coil	1
Q602,603		Transistor 2SC536K AUD	2
Q601		Transistor 2SD400 P2 W/FIN	1
Q621		Transistor 2SC536 AUD	1
Q620		Transistor 2SA608	1
Q903		Transistor 2SD400	1
Q901,902		Transistor 2SD400	2
D901,903, 904		Diode DS135	3
D902		Diode DS135	1
D621,622		Diode GMA01 or 1SS133	2
D905		Zener Diode GZA9.1Z	1
D601		Zener Diode GZA6.8Y	1
D906		Zener Diode GZA7.5Z	1
D923		Zener Diode GZA5.6X	1
D624		Zener Diode GZA4.7X	1
	RESISTORS All Resistors are Carbon T-type ±5% 1/6W, unless otherwise noted.		
R620		1K ohm	1
R621		27K ohm	1
R622		10K ohm	1
R623		6.8K ohm	1
R624		10K ohm	1
R625		6.8K ohm	1
R626		220 ohm, V-type ¼W	1
R627		4.7K ohm	1
R628		1K ohm	1
R629		10K ohm	1
R901		1 ohm, P-type ¼W	1
R902		150 ohm	1
R903		33 ohm	1
R904		270 ohm	1
R905		560 ohm	1

Key. No.	Part No.	Description	Q'ty
POWER SUPPLY P. C. B. ASS'Y			
	RESISTORS		
R601		1 ohm P-type ¼W	1
R602		1K ohm	1
R603		1.5K ohm	1
R604		56 ohm P-type ¼W	1
R605		6.8 ohm	1
R606,607		5.6K ohm	2
R610		10K ohm	1
R608		1K ohm	1
R619		10K ohm	1
	CAPACITORS		
C601		Electrolytic 47μF 10V	1
C602		Electrolytic 100μF 10V	1
C613		Electrolytic 10μF 10V	1
C620		Electrolytic 22μF 10V	1
C621		Electrolytic 4.7μF (NOP) 25V	1
C622		Electrolytic 220μF 16V	1
C623		Electrolytic 47μF 16V	1
C612		Electrolytic 4.7μF (NOP) 25V	1
C901		Electrolytic 10μF 16V	1
C902		Electrolytic 100μF 10V	1
C903		Electrolytic 220μF 16V	1
C904		Electrolytic 220μF 10V	1
C905		Electrolytic 100μF 10V	1
C906		Electrolytic 1μF 50V	1
C913,914		Electrolytic 1μF 50V	2
C909		Electrolytic 1μF 50V	1
C452,552		Electrolytic 4.7μF 25V	2
C603		BC Con 0.0018μF ±10% 25V	1
C604,605		BC Con 0.0047μF ±10% 25V	2
C606		BC Con 0.033μF ±5% 25V	1
C607		P P Con 0.015μF ±5% 100V	1
C608		Ceramic 0.01μF +80–20% 50V	1
C912		Mylar 0.1μF ±20% 50V	1
MIC–AMP P. C. B. ASS'Y			
D73	141-4-250T-47176	P.C.B. Ass'y, Mic. Amp	1
	4-240T-19500	Socket, MIC	1
	123-2-472R-00401	Lug	1
Q401		Transistor 2SC2320 NF	1
	RESISTORS		
R402		1M ohm	1
R403		3.9K ohm	1
R404		47 ohm	1
R405		15K ohm	1
R406		22K ohm	1
R920		220 ohm	1
R408,508		56K ohm	2
R400		10K ohm	1
	CAPACITORS		
C402		Electrolytic 1μF 50V	1
C404		Electrolytic 2.2μF 50V	1
C924		Electrolytic 220μF 10V	1
C403		Ceramic 0.001μF ±10% 50V	1
C918		Ceramic 0.022μF +80–20% 50V	1
METER P. C. B. ASS'Y			
D74	141-4-250T-47502	P.C.B. Ass'y, Meter	1
D633,634		LED SLP156B-40 Red	2
D630,631, 632		LED SLP256B-40 Green	3
IC630		IC LB1416	1
D635		Zener Diode GZA6.2X	1
	RESISTORS		
R634		150K ohm	1
R635		10K ohm	1
R637		33K ohm	1
R639,640		330 ohm	2

Key. No.	Part No.	Description	Q'ty
METER P. C. B. ASS'Y			
	RESISTORS		
R641		680 ohm V-type ¼W	1
R638		100 ohm P-type ¼W	1
R636		68 ohm P-type ¼W	1
R630,632		27K ohm T-type 1/6W	2
R631,633		5.6K ohm T-type 1/6W	2
	CAPACITORS		
C630		Electrolytic 4.7μF 25V	1
C631		Electrolytic 2.2μF 50V	1
C632		Electrolytic 47μF 10V	1
DC SOCKET P. C. B. ASS'Y			
D75	141-4-250T-47400	P.C.B. Ass'y, DC Socket	1
	4-240T-27700	Socket	1
REC–LED P. C. B. ASS'Y			
D76	141-4-250T-74600	P.C.B. Ass'y, REC–LED	1
		LED SLP155B Red	1

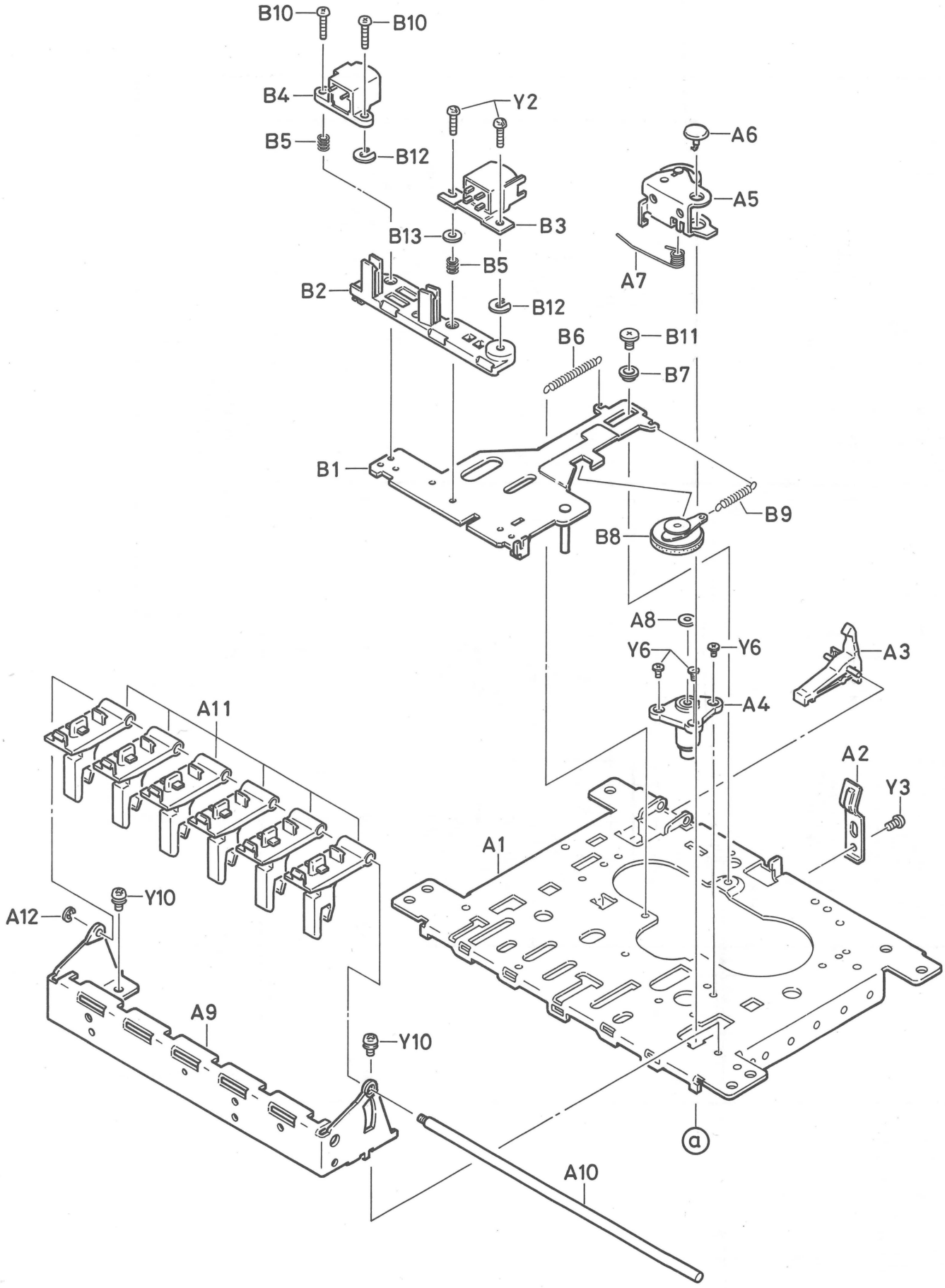
Safety notice:
All parts bearing the ⚠ symbol were manufactured to conform to special safety standards. When replacing, do not use parts numbers other than those specified.

PARTS LIST

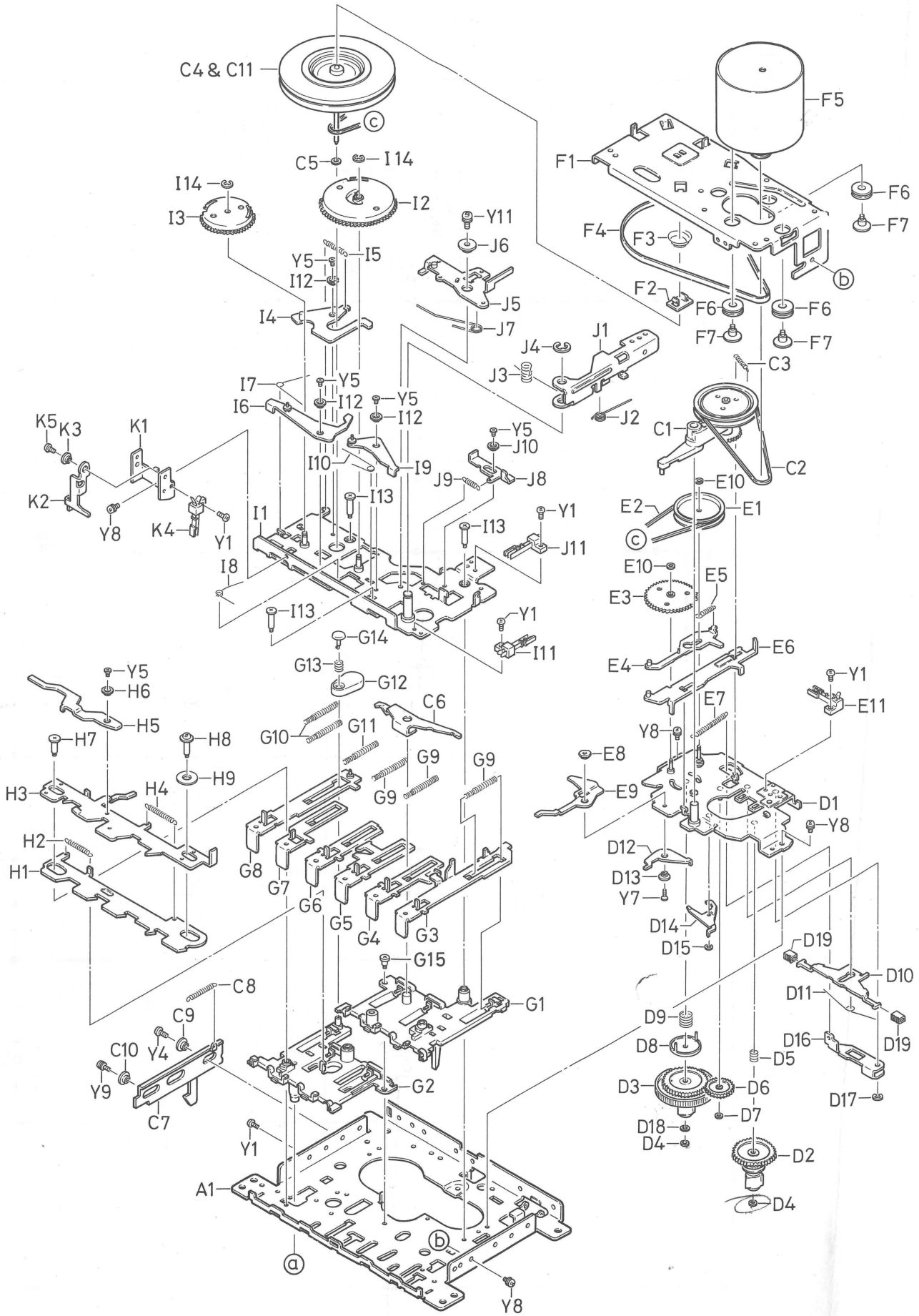
Key. No.	Part No.	Description	Q'ty
MECHANISM (TM–C4TN)			
A 1	141-2-311T-45100	Chassis, Mechanism	1
A 2	141-2-853T-83400	Spring Plate, Cassette	1
A 3	141-2-740T-95000	Lever, REC Stoper	1
A 4	141-2-573T-17200	Bearing, FL Metal	1
A 5	141-0-545T-08600	Lever Pinch Roller Ass'y	1
A 6	141-2-465T-21100	Stopper	1
A 7	141-2-852T-84100	Spring Wire	1
A 8	141-2-453T-25000	Nylon Washer, 2 x 5 x 0.5mm	1
A 9	141-2-737T-10500	Bracket Slide	1
A10	141-2-754T-43400	Shaft	1
A11	141-2-740T-00900	Lever	6
A12	141-2-457T-23800	Special Washer 1.5mm	1
B 1	141-0-732T-15000	Slide Ass'y, Hed Panel	1
B 2	141-2-737T-10100	Bracket Slide	1
B 3	4-242T-25381	Magnetic Head R/P Head	1
B 4	4-242T-27500	Magnetic Head, E Head	1
B 5	141-2-856T-08000	Spring Coil	2
B 6	141-2-856T-18100	Spring Coil	1
B 7	141-2-461T-46500	Pipe	1
B 8	141-0-732T-15100	Slide Ass'y	1
B 9	141-2-856T-18000	Spring Coil	1
B10	141-2-421T-39000	Special Screw 2 x 7mm	2
B11	141-2-421T-44000	Special Screw 2.6 x 4mm	1
B12			
B13			
C 1	141-0-661T-35900	Pulley Ass'y	1
C 2	141-2-564T-30000	Square Belt	1
C 3	141-2-856T-18300	Spring Coil	1
C 4	141-0-521T-14500	Flywheel Ass'y	1
C 5	141-2-453T-25200	Nylon Washer 2.2 x 3.8 x 0.3mm	1
C 6	141-2-742T-00300	Lever	1
C 7	141-2-732T-15200	Slide	1
C 8	141-2-856T-18800	Spring Coil	1
C 9	141-2-461T-46700	Pipe	1
C10	141-2-461T-46800	Pipe	1
C11	141-2-581T-30200	Gear	1
D 1	141-0-737T-10200	Bracket Slide Ass'y	1
D 2	141-0-661T-38200	Pulley Ass'y, REEL PLATE (Supply Side)	1
D 3	141-0-661T-38100	Pulley Ass'y, REEL PLATE (Take up Side)	1
D 4	141-2-453T-34300	Nylon Washer, 1.6 x 3.8 x 0.3t	2
D 5	141-2-856T-18600	Spring Coil	1
D 6	141-2-581T-28600	Gear, FF	1
D 7	141-2-453T-34200	Graphite Nylon Washer, 1.2 x 3 x 0.25t	1
D 8	141-0-661T-38400	Pulley Ass'y	1
D 9	141-2-856T-19400	Spring Coil	1
D10	141-2-732T-16200	Slide	1
D11	141-2-852T-84000	Spring Wire	1
D12	141-2-740T-00500	Lever	1
D13	141-2-461T-47100	Pipe	1
D14	141-2-740T-00600	Lever	1
D15	141-2-457T-23700	Special Washer 1.2mm	1
D16	141-2-740T-01700	Lever	1
D17	141-2-457T-23800	Special Washer 1.5mm	1
D18	IHP-4593-30000		
D19	141-2-712T-03800	Brake Shoe	1
E 1	141-2-661T-38300	Pulley	1
E 2	141-2-564T-30200	Square Belt	1
E 3	141-2-581T-30500	Gear	1
E 4	141-2-740T-01000	Lever	1
E 5	141-2-856T-19500	Spring Coil	1
E 6	141-0-732T-16300	Slide Ass'y	1
E 7	141-2-856T-19900	Spring Coil	1
E 8	141-2-461T-46600	Pipe	1
E 9	141-2-740T-01100	Lever	1
E10	141-2-453T-34200	Graphite Nylon Washer 1.2 x 3 x 0.25t	2
E11			1
F 1	141-2-378T-14000	Bracket Motor	1
F 2	141-2-573T-17100	Bearing	1
F 3	141-2-856T-18700	Spring Coil	1
F 4	141-2-564T-30100	Square Belt	1
F 5	4-527T-20001	Motor Ass'y	1
F 6	141-2-445T-29400	Rubber Cushion, Motor Rubber	3
F 7	141-2-421T-44100	Special Screw	3
G 1	141-2-737T-10300	Bracket Slide, L	1
G 2	141-2-737T-10400	Bracket Slide, R	1
G 3	141-2-732T-15300	Slide, REC	1
G 4	141-2-732T-15400	Slide, PLAY	1

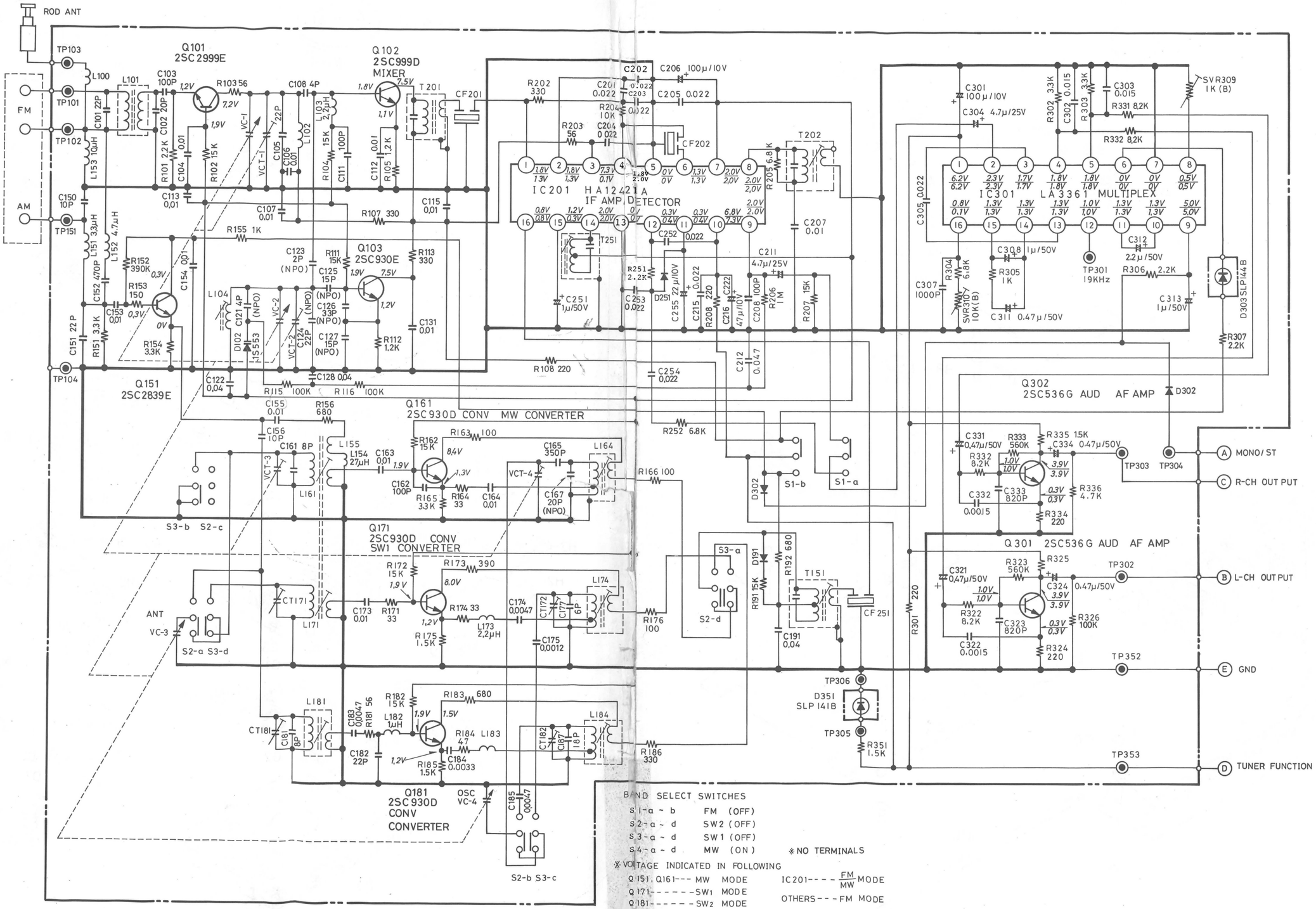
Key. No.	Part No.	Description	Q'ty
MECHANISM (TM–C4TN)			
G 5	141-2-732T-15500	Slide, RWD	1
G 6	141-2-732T-15600	Slide, FF	1
G 7	141-2-732T-15700	Slide, STOP	1
G 8	141-0-732T-15800	Slide, Ass'y, PAUSE	2
G 9	141-2-856T-19100	Spring Coil	3
G10	141-2-856T-19000	Spring Coil	2
G11	141-2-856T-20000	Spring Coil	1
G12	141-2-614T-06400	Lever Lock	1
G13	141-2-856T-18900	Spring Coil	1
G14	141-2-465T-21900	Stopper	1
G15	141-2-421T-44400	Special Screw	1
H 1	141-2-732T-16000	Slide	1
H 2	141-2-856T-19300	Spring Coil	1
H 3	141-2-732T-15900	Slide	1
H 4	141-2-856T-19200	Spring Coil	1
H 5	141-2-740T-00800	Lever	1
H 6	141-2-461T-47100	Pipe	1
H 7	141-2-421T-44200	Special Screw	1
H 8	141-2-421T-44300	Special Screw	1
H 9	141-2-453T-64700	Washer 4.1 x 9 x 0.8mm	1
I 1	141-0-737T-10600	Bracket Slide Ass'y	1
I 2	141-2-581T-30600	Gear	1
I 3	141-2-581T-30700	Gear	1
I 4	141-0-740T-01300	Lever Ass'y	1
I 5	141-2-856T-19600	Spring Coil	1
I 6	141-0-740T-01400	Lever Ass'y	1
I 7	141-2-852T-83600	Spring Wire	1
I 8	141-2-852T-83700	Spring Wire	1
I 9	141-0-740T-01200	Lever Ass'y	1
I 10	141-2-852T-83500	Spring Coil	1
I 11	4-238T-65500	Switch, (S10 Motor)	1
I 12	141-2-461T-47100	Pipe	3
I 13	141-2-421T-44500	Special Screw	3
I 14	141-2-457T-23000	Special Washer "E" Ring 2ϕ	2
J 1	141-2-740T-01500	Lever, REC	1
J 2	141-2-852T-83800	Spring Wire	1
J 3	141-2-856T-19700	Spring Coil	1
J 4	141-2-457T-23100	Special Washer, "E" Ring	1
J 5	141-0-740T-01600	Lever Ass'y	1
J 6	141-2-852T-83900	Spring Wire	1
J 7	141-2-461T-47000	Pipe	1
J 8	141-2-732T-16100	Slide	1
J 9	141-2-856T-19800	Spring Coil	1
J10	141-2-461T-47100	Pipe	1
J11	4-238T-65500	Switch, (S7 Play)	1
K 1	141-2-365T-58500	Bracket Switch	1
K 2	141-2-740T-02000	Lever	1
K 3	141-2-461T-47100	Pipe	1
K 4	4-238T-65500	Switch (S8 Stop Mute)	1
K 5	141-2-421T-44600	Special Screw 2 x 3mm	1
FIXING PARTS			
Y 1		Pan. Hd. Screw 2 x 4mm	3
Y 2		Pan. Hd. Screw 2 x 8mm	2
Y 3		Pan. Hd. Forming Screw 2.6 x 3mm	1
Y 4		Pan. Hd. Forming Screw 2.6 x 5mm	1
Y 5		Special Flat Hd. Screw 2 x 2.5mm	2
Y 6		Special Flat Hd. Screw 2 x 3mm	3
Y 7		Special Flat Hd. Screw 2 x 4.5mm	1
Y 8		Pan. Hd. Screw W/Spring Washer 2 x 4mm	2
Y 9		Pan. Hd. Screw W/Spring Washer 2 x 6mm	1
Y10		Pan. Hd. Screw W/Spring Washer 2.6 x 4mm	2
Y11		Pan. Hd. Screw W/Spring Washer 2.6 x 6mm	1

EXPLODED VIEW (MECHANISM 1/2)



EXPLODED VIEW (MECHANISM 2/2)





BAND SELECT SWITCHES

S1-a ~ b	FM	(OFF)
S2-a ~ d	SW2	(OFF)
S3-a ~ d	SW1	(OFF)
S4-a ~ d	MW	(ON)

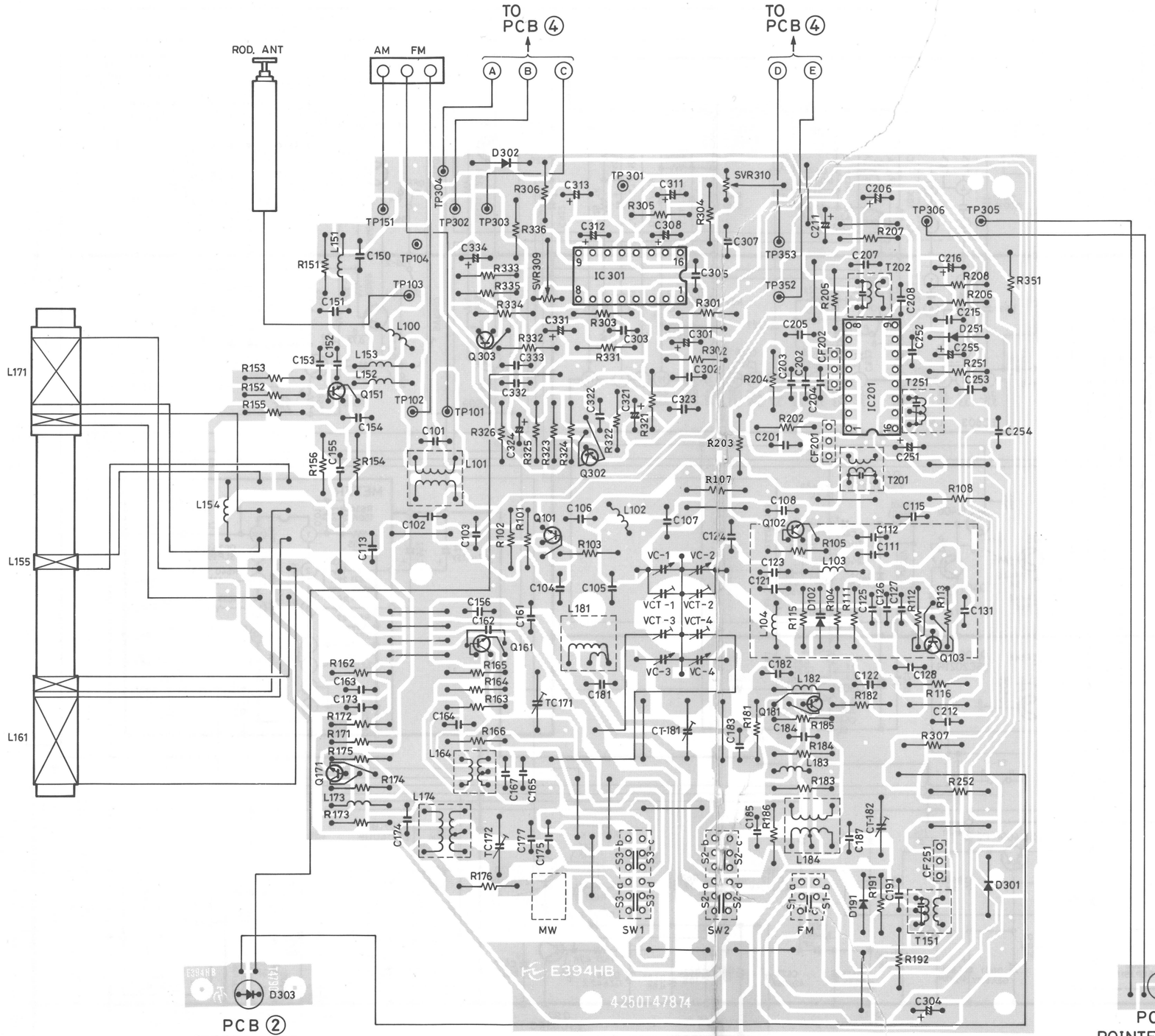
※NO TERMINALS

※VOLTAGE INDICATED IN FOLLOWING

Q151, Q161--- MW MODE
Q171------SW1 MODE
Q181------SW2 MODE

IC201---FM/MW MODE
OTHERS---FM MODE

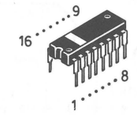
WIRING DIAGRAM (TUNER)



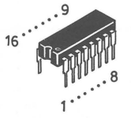
Q101, 102 ····· 2SC2999
Q151 ····· 2SC2839

Q103, 161, 171, 181 ···· 2SC930
Q302, 303 ····· 2SC536

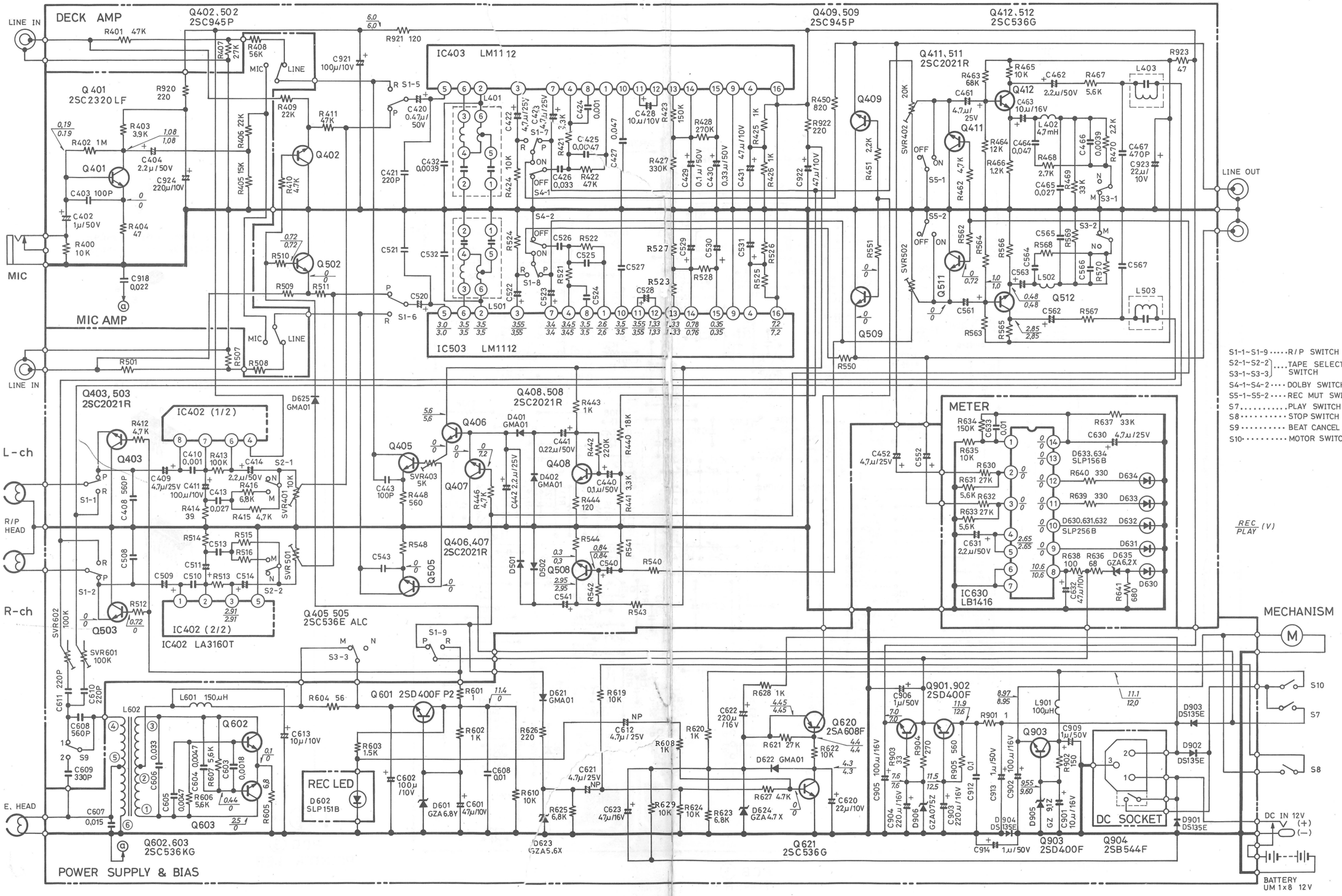
IC201 ····· HA12421A



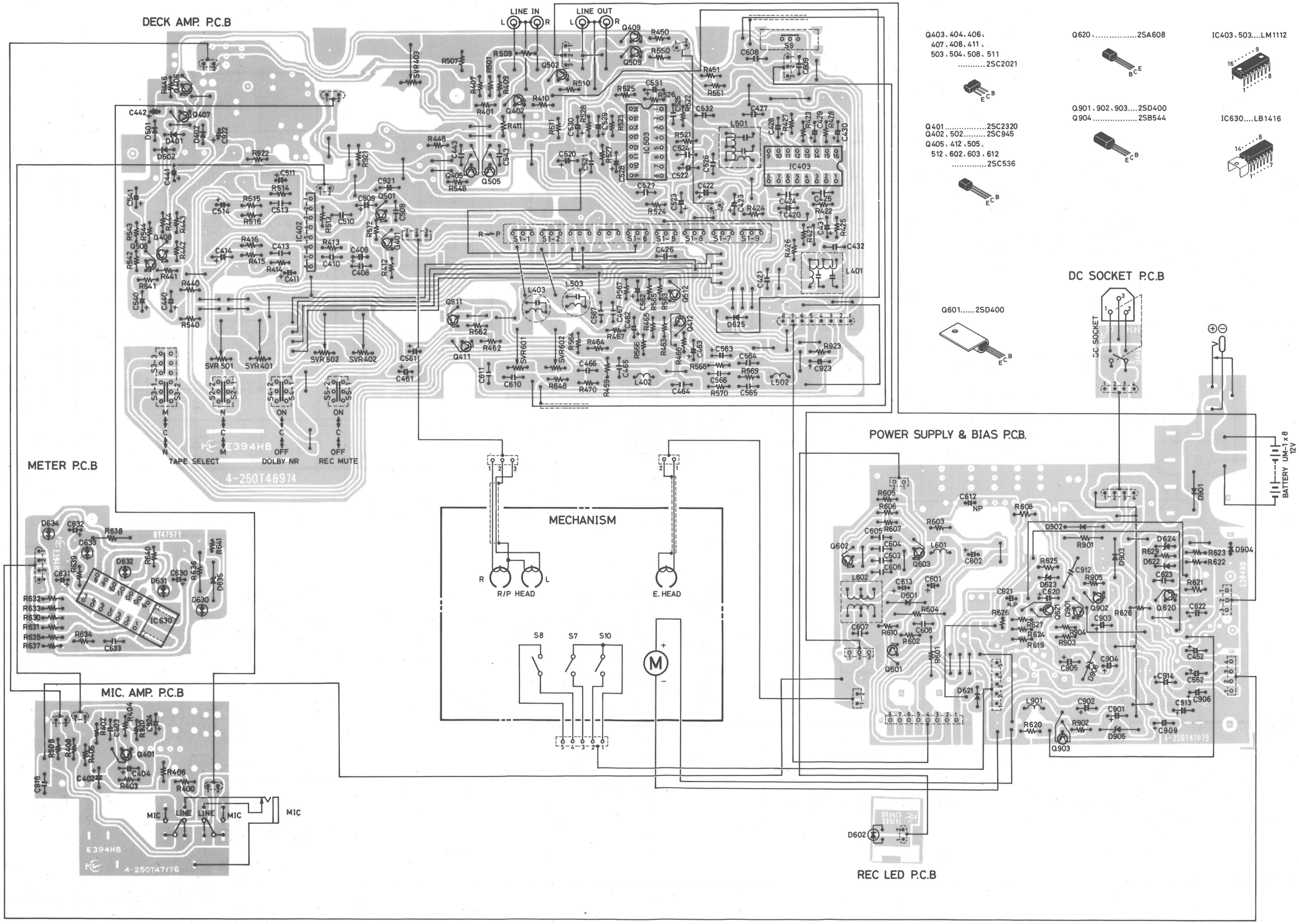
IC301 ····· LA3361



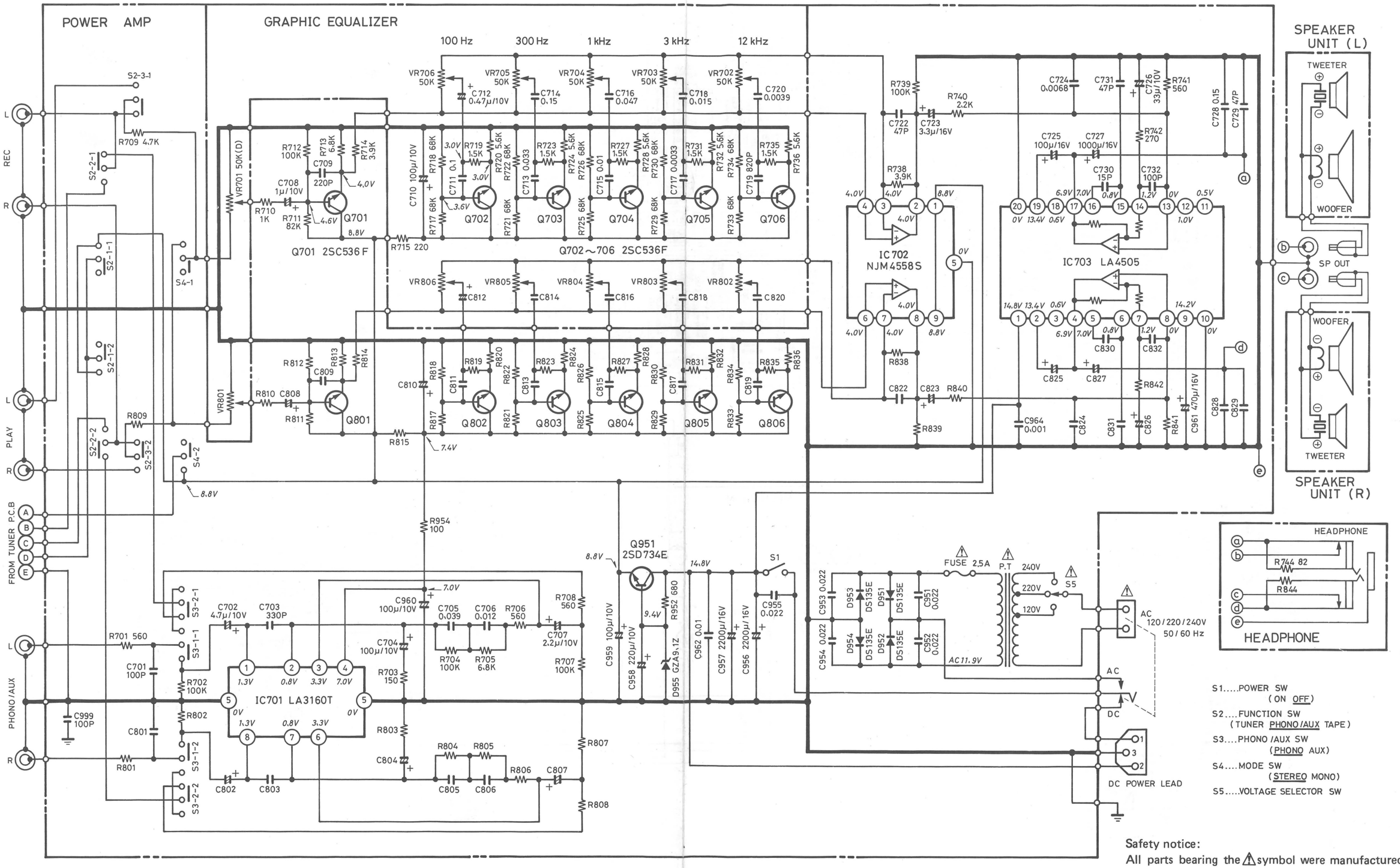
SCHEMATIC DIAGRAM (DECK AMP)



WIRING DIAGRAM (DECK AMP)

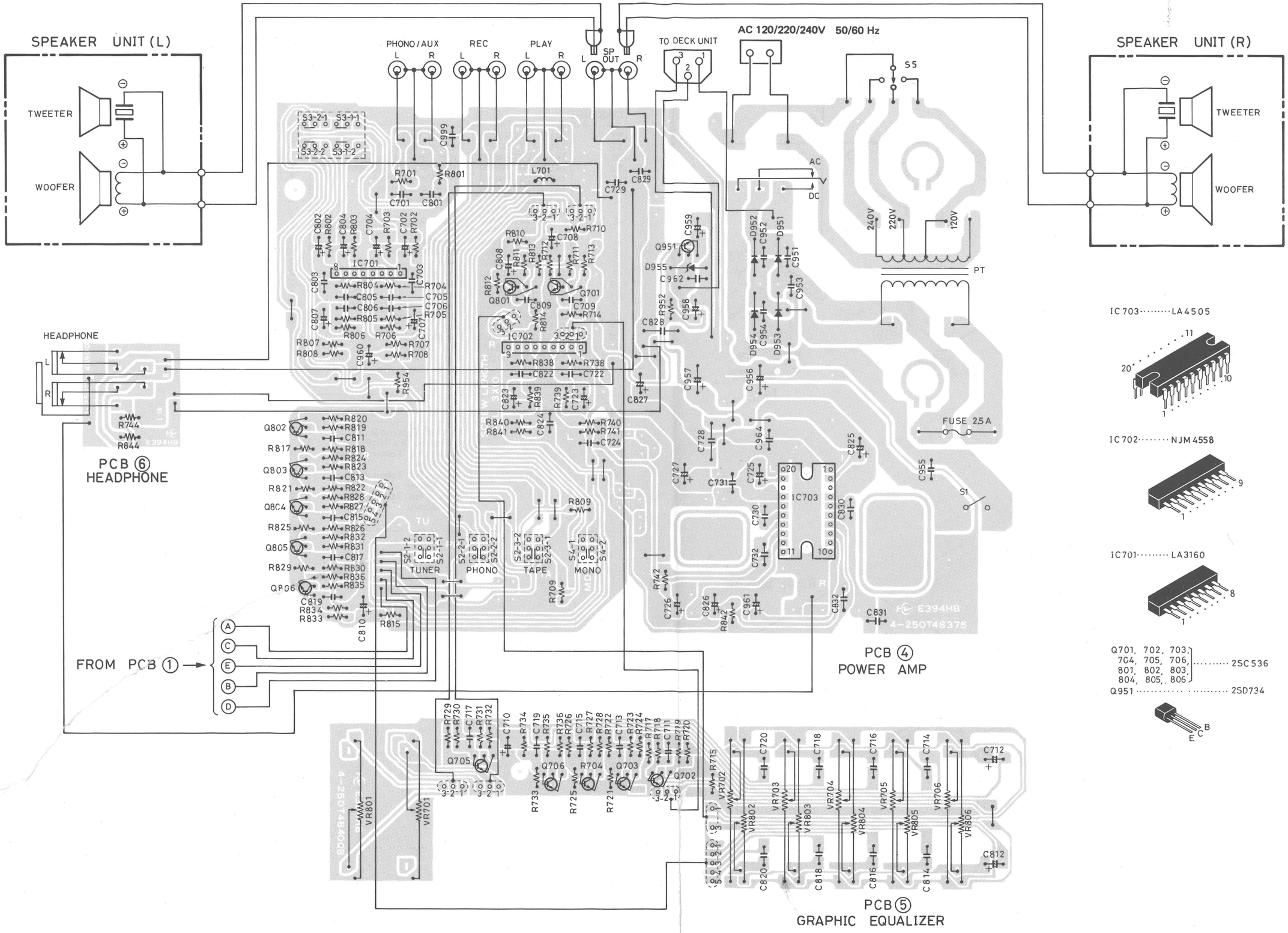


SCHEMATIC DIAGRAM (POWER AMP, POWER SUPLLY, SPEAKER)

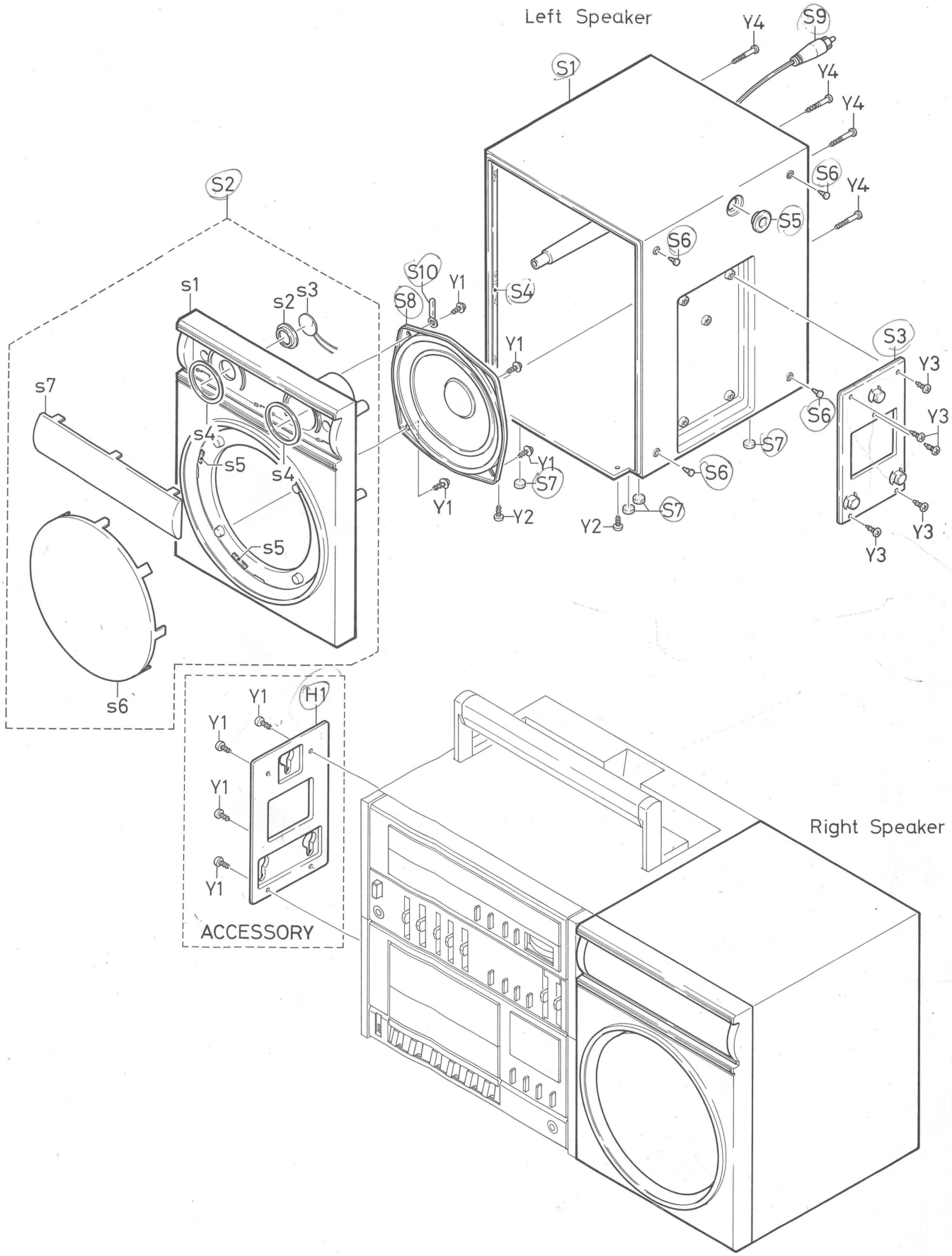


Safety notice:
All parts bearing the ⚠ symbol were manufactured to conform to special safety standards. When replacing, do not use parts numbers other than those specified.

WIRING DIAGRAM (POWER AMP, POWER SUPLLY, SPEAKER)



EXPLODED VIEW (SPEAKER UNIT)



Key. No.	Part No.	Description	Q'ty
*** SPEAKER UNIT**			
CABINET			
S1	141-2-111T-53001	Cabinet, Left	1
S1'	141-2-111T-53101	Cabinet, Right	1
S2	141-0-122T-44904	Front Panel Ass'y, Left	1
S2'	141-0-122T-48400	Front Panel Ass'y, Right	1
s1	141-2-122T-44940	Front Panel, Left	1
s1'	141-2-122T-48400	Front Panel, Right	1
s2	141-2-153T-77700	Escutcheon	2
s3	4-151T-38674 4-151T-42400 4-151T-41974	for Speaker, Tweeter	2
s4	141-2-153T-82000	Escutcheon	4
s5	141-2-445T-27600	Rebber Cushion	10
s6	141-2-242T-02800	Lattice	2
s7	141-2-242T-02940	Lattice	2
S3	141-2-210T-40840	Bracket	2
S4	141-2-184T-03100	Tape	2
S5	141-2-135T-84100	Cover	2
S6	141-2-445T-14900	Rubber Cushion	8
S7	141-2-174T-08501	Stand	8
S8	4-151T-44700	Speaker 12Cm Woofer	2
S9	4-243T-22900	Lead Cord	2
S10	141-2-472T-01201	Lug	2
FIXING PARTS			
Y1		Pan. Hd. Tapping Screw W/Washer 3 x 10mm	8
Y2		Binding Hd. Tapping Screw 3 x 10mm	4
Y3		Binding Hd. Tapping Screw 3 x 12mm	10
Y4		Binding Hd. Tapping Screw 3 x 30mm	8

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